

# TEST REPORT

**APPLICANT** : Nantong Tianshu Sports Equipment Co., Ltd

**ADDRESS** : No.8, Group 5, Zhenhe Village, Chahe Town, Rudong  
County, Nantong City

**SAMPLE DESCRIPTION** : Kids Soft Play Set

**ITEM NO.** : 3D0-008  
TS002V01; TS002V02; TS002V03; TS003V01; TS003V02;  
TS003V03; TS004V01; TS006V01; TS006V02; TS006V03;  
TS008V02; TS008V01; TS009V01; TS009V02; TS010V01;  
TS010V02; TS011V01; TS012V02; TS012V03; TS016V02

**COUNTRY OF ORIGIN** : China

**LAB RECOMMENDED AGE GRADE** : 12-36 Months

**LABELED AGE GRADE** : 12-36 Months

**AGE GRADE APPLIED IN TESTING** : 12-36 Months

**SAMPLE RECEIVED DATE** : 12-Dec-2023

**FURTHER INFORMATION DATE** : 20-Jan-2024

**TURN AROUND TIME** : 12-Dec-2023 to 21-May-2024

**REVISED DATE** : 21-May-2024

The following test item(s) was/were performed on selected sample(s) and/or component(s) confirmed by applicant

| TEST REQUESTED                     | TEST METHOD/REGULATION                                        | RESULT |
|------------------------------------|---------------------------------------------------------------|--------|
| Mechanical and Physical Properties | ASTM F963-23                                                  | Pass   |
| Total Lead Content in Metal        | SOR/2018-83, Consumer Products<br>Containing Lead Regulations | Pass   |
| Total Lead Content in Coating      | SOR/2018-83, Consumer Products<br>Containing Lead Regulations | Pass   |
| Total Lead Content in Plastic      | SOR/2018-83, Consumer Products<br>Containing Lead Regulations | Pass   |
| Flammability of Toys               | ASTM F963-23                                                  | Pass   |
| Tracking Label Assessment          | US CPSIA, Section 103                                         | Pass   |
| Heavy Metals                       | ASTM F963-23                                                  | Pass   |

*Samples are obtained by express delivery, Results obtained refer only to samples, products or material received in Laboratory, as described in point related to sample description, and tested in conditions shown in present report. Eurofins MTS Consumer Product Testing (Shanghai) Co., Ltd ensures that this job has been performed according to our Quality System and complying contract and legal conditions. If you happen to have any comments, please do it by sending email to [info@eurofins.com](mailto:info@eurofins.com) and referring to this report number. Reproduction of this document is only valid if it is done completely and under the written permission of Eurofins MTS Consumer Product Testing (Shanghai) Co., Ltd. If you happen to have any complaints, please do it by sending email to [china.complaint@eurofins.com](mailto:china.complaint@eurofins.com) and referring to this report number.*

| TEST REQUESTED                                | TEST METHOD/REGULATION                                                                                                   | RESULT |
|-----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|--------|
| Phthalates Content                            | ASTM F963-23                                                                                                             | Pass   |
| Total Lead Content in Substrate               | US CPSIA, Section 101                                                                                                    | Pass   |
| Total Lead Content in Paint / Surface Coating | US CPSIA, Section 101                                                                                                    | Pass   |
| Phthalates Content                            | US CPSIA, Section 108                                                                                                    | Pass   |
| Phthalates Content                            | CPSC 16 CFR part 1307                                                                                                    | Pass   |
| Total Lead Content                            | US California Proposition 65                                                                                             | Pass   |
| Total Lead Content                            | REACH Annex XVII, Entry 63                                                                                               | Pass   |
| Physical and Mechanical Hazards               | EN 71-1:2014+A1:2018                                                                                                     | Pass   |
| Physical and Mechanical Hazards               | BS EN 71-1:2014+A1:2018                                                                                                  | Pass   |
| Labeling Requirement                          | Directive 2009/48/EC                                                                                                     | Pass   |
| Labeling Requirement for United Kingdom       | The Toys (Safety) Regulations 2011 and The Product Safety and Metrology etc. (Amendment etc.) (EU Exit) Regulations 2019 | Pass   |
| Flammability of Toys                          | EN 71-2:2020                                                                                                             | Pass   |
| Flammability of Toys                          | BS EN 71-2:2020                                                                                                          | Pass   |
| Migration of Certain Elements                 | EN 71-3:2019+A1:2021                                                                                                     | Pass   |
| Migration of Certain Elements                 | BS EN 71-3:2019+A1:2021                                                                                                  | Pass   |
| Total Cadmium Content                         | REACH Annex XVII, Entry 23                                                                                               | Pass   |
| Phthalates Content                            | REACH Annex XVII, Entry 51 & 52                                                                                          | Pass   |
| Banned AZO Dyes                               | REACH Annex XVII, Entry 43                                                                                               | Pass   |
| Polycyclic Aromatic Hydrocarbons (PAHs)       | REACH Annex XVII, Entry 50                                                                                               | Pass   |
| Polycyclic Aromatic Hydrocarbons (PAHs)       | German GS Specification: AfPS GS 2019:01 PAK                                                                             | Pass   |
| Mechanical and Physical Properties            | SOR/2011-17 amended by SOR/2018-138                                                                                      | Pass   |
| Flammability of Toys                          | SOR/2011-17 amended by SOR/2018-138                                                                                      | Pass   |
| Phthalate Regulations                         | SOR/2016-188                                                                                                             | Pass   |
| Heavy Metals in Plastic Materials             | SOR/2011-17 amended by SOR/2018-138                                                                                      | Pass   |
| Heavy Metals in Surface Coating               | SOR/2011-17 amended by SOR/2018-138                                                                                      | Pass   |
| Surface Coating Materials Regulations         | SOR/2016-193                                                                                                             | Pass   |

Note : This report cancels and supersedes report number EFW524011176-CG-01 issued on Jan 17<sup>th</sup>, 2024.

Modification description:

- 1.As per client's request, submit component No.12-25 of sample B for selected chemical tests and add reference sample photo(s) in the revised report.
- 2.As per client's request, add reference sample photo(s) in the revised report.

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**Eurofins (Shanghai) contact information****Customer service:** [SallyZhang@eurofins.com](mailto:SallyZhang@eurofins.com)/ +86 13116656995**Sales specialist:** [Diver.Dong@cpt.eurofinscn.com](mailto:Diver.Dong@cpt.eurofinscn.com)/ +86 13116656995

\*\*\*\*\* FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) \*\*\*\*\*

Signed for and on behalf of

Eurofins MTS Consumer Product Testing (Shanghai) Co., Ltd.



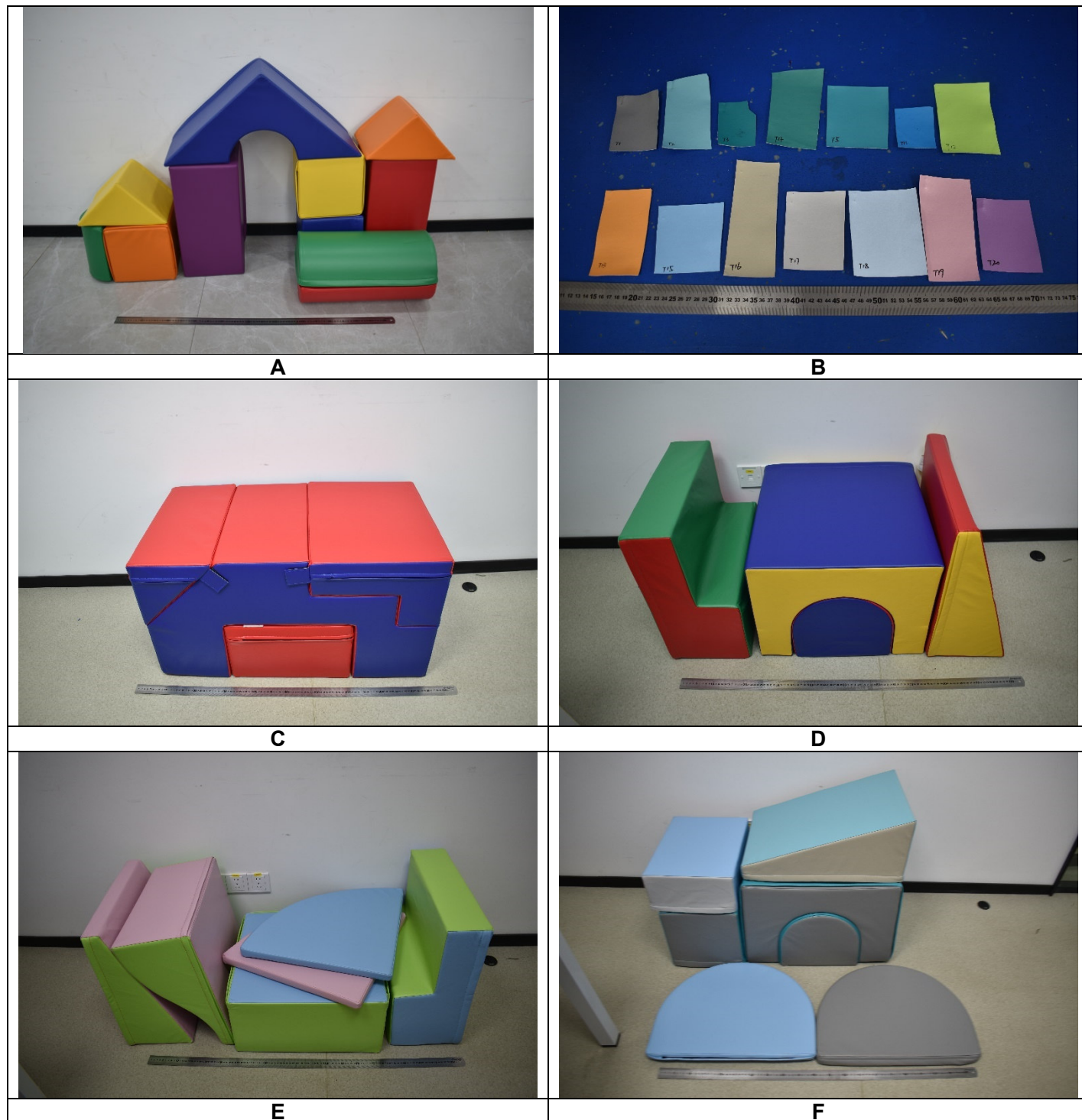
Gao Jian, David

Senior Manager, Toy Division



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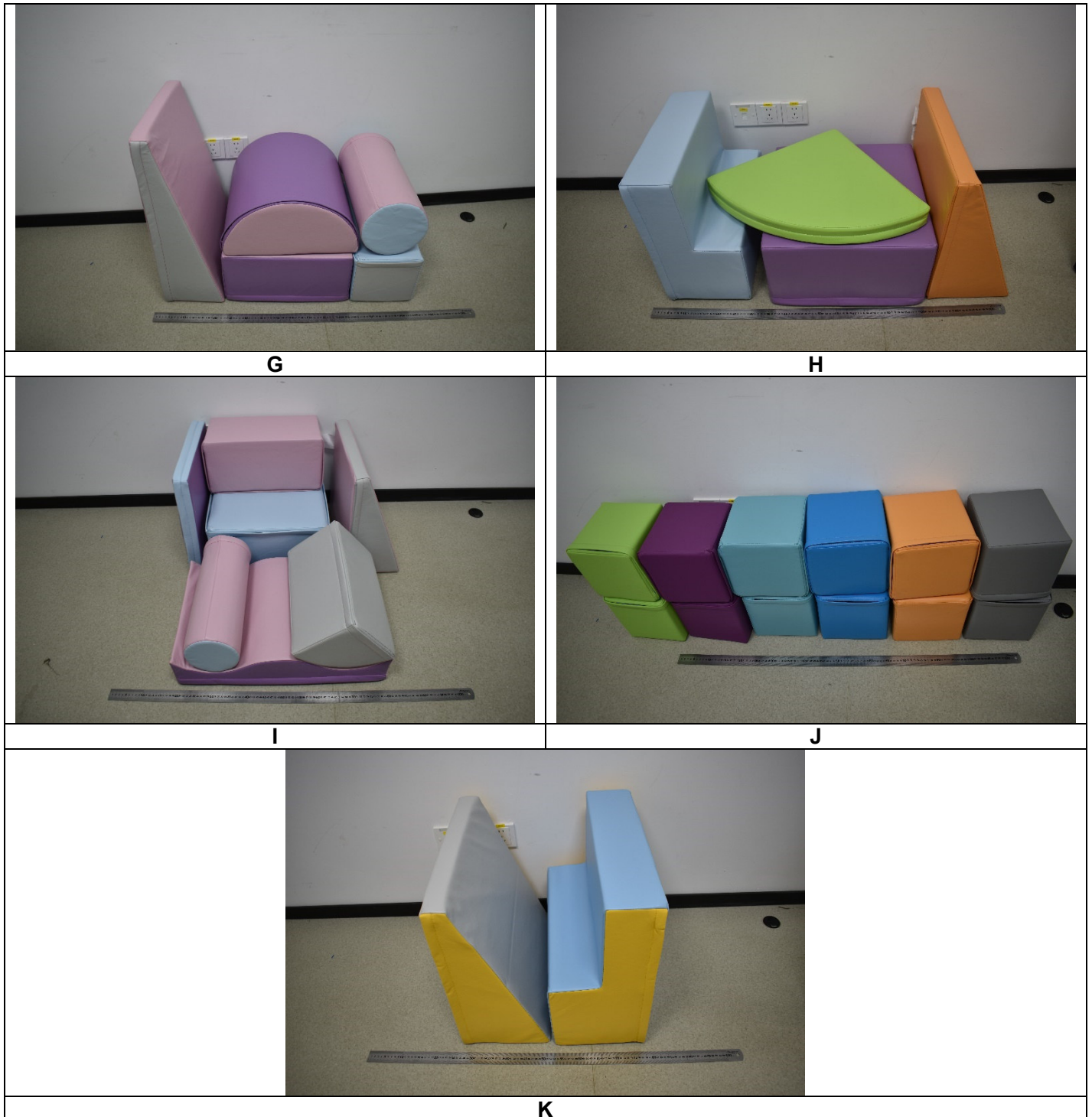
## TEST SAMPLE PHOTO(S)



# EFW524011176-CG-01+Rev 1

\*\*\*TO BE CONTINUED\*\*\*

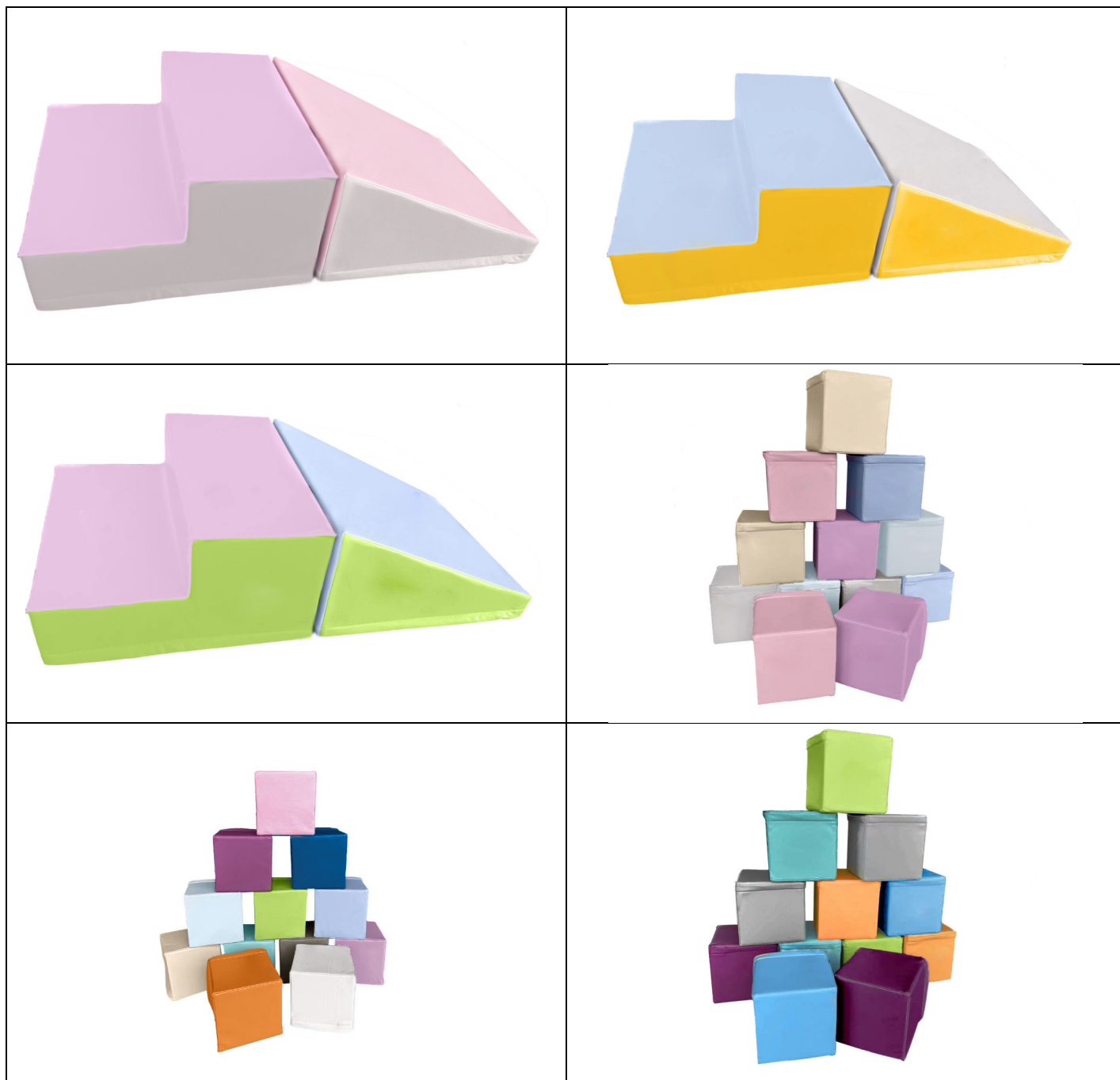
## TEST SAMPLE PHOTO(S)



**EFW524011176-CG-01+Rev 1**

\*\*\*TO BE CONTINUED\*\*\*

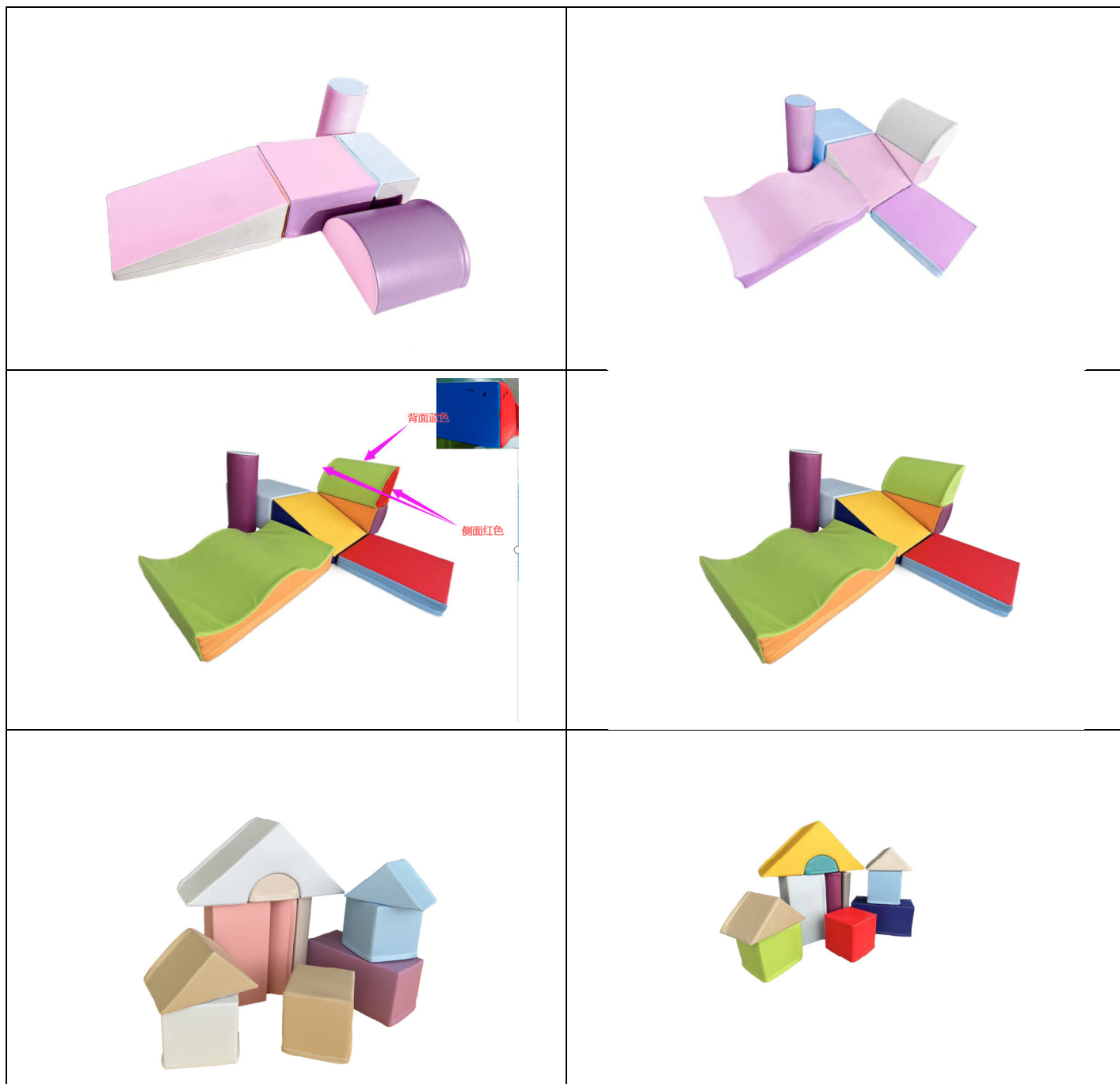
## REFERENCE SAMPLE PHOTO(S)



The reference sample(s) has not been tested in current report, but according to customer's request, the picture has also been included. For sample tested in current report, please refer to "Test sample photo".

\*\*\*TO BE CONTINUED\*\*\*

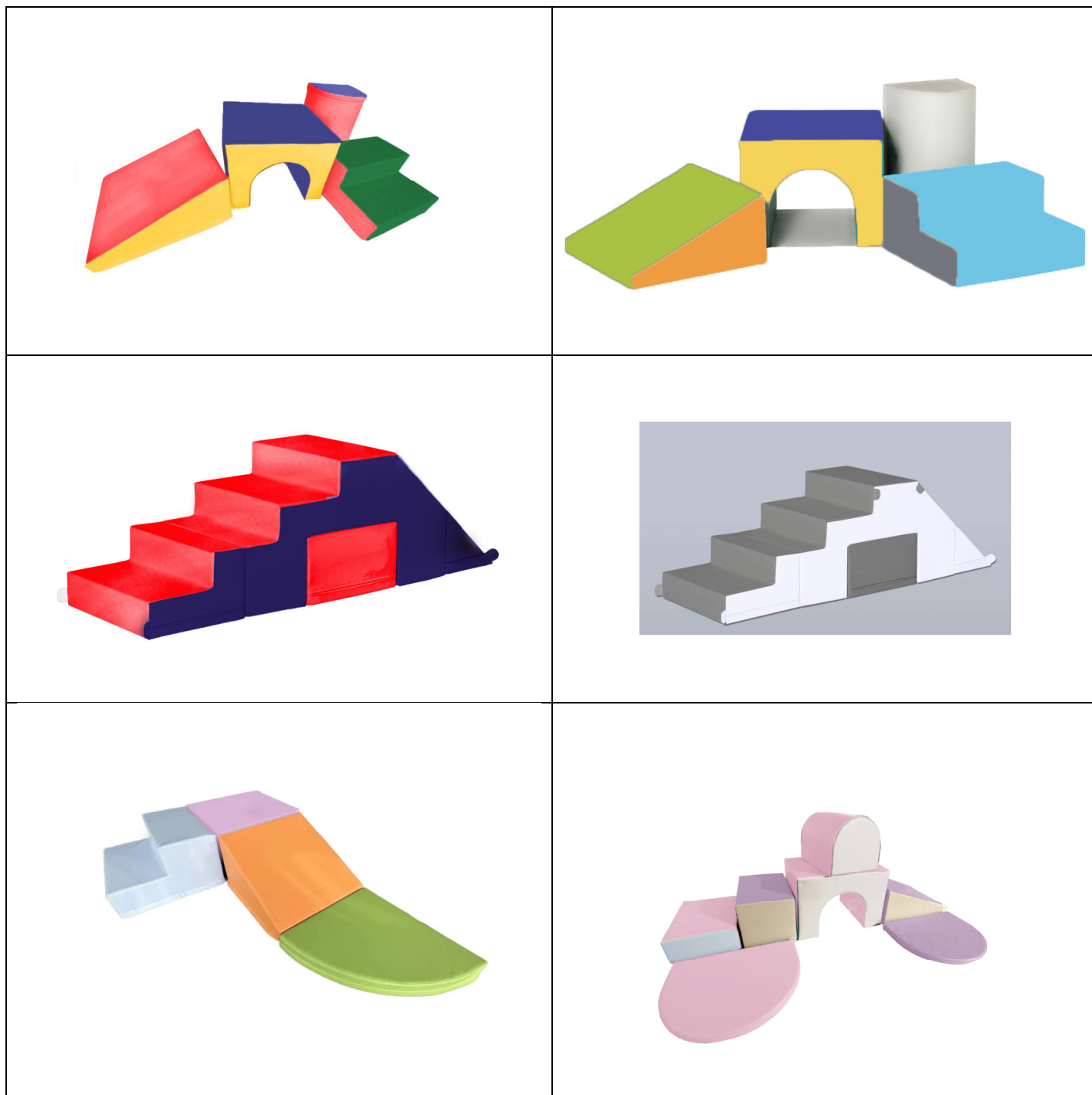
## REFERENCE SAMPLE PHOTO(S)



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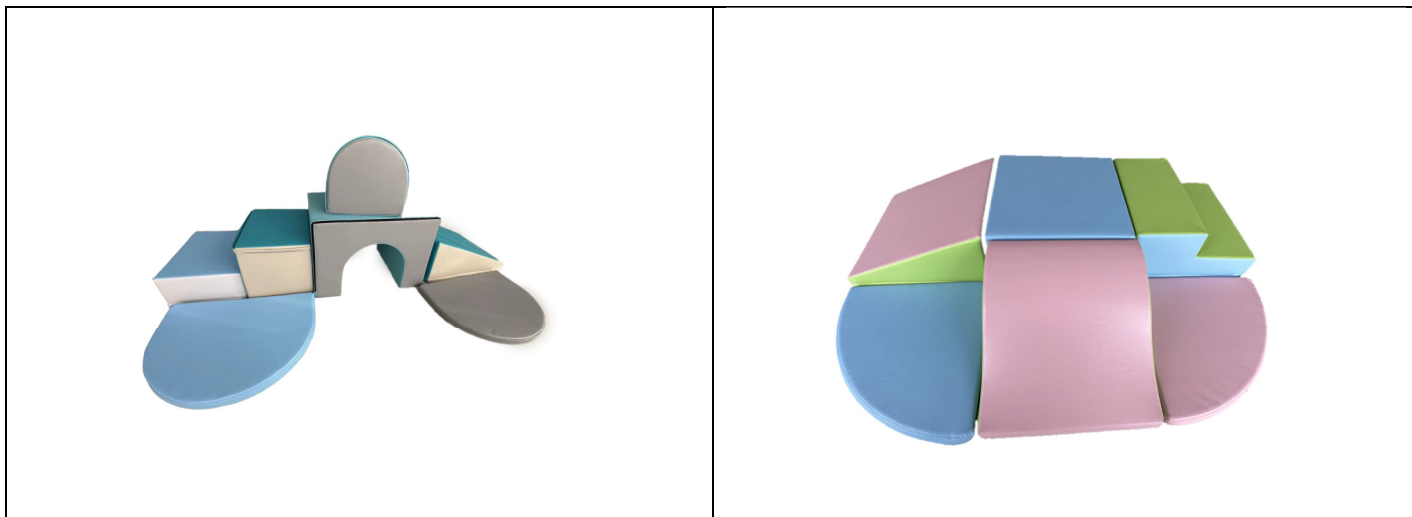
\*\*\*TO BE CONTINUED\*\*\*

## REFERENCE SAMPLE PHOTO(S)



The reference sample(s) has not been tested in current report, but according to customer's request, the picture has also been included. For sample tested in current report, please refer to "Test sample photo".

\*\*\*TO BE CONTINUED\*\*\*

**REFERENCE SAMPLE PHOTO(S)**

The reference sample(s) has not been tested in current report, but according to customer's request, the picture has also been included. For sample tested in current report, please refer to "Test sample photo".

\*\*\*TO BE CONTINUED\*\*\*

## COMPONENT LIST

| Component No. | Component                               | Sample No. |
|---------------|-----------------------------------------|------------|
| 1             | Black coating on metal (zipper)         | A          |
| 2             | Black plastic (zipper teeth)            | A          |
| 3             | White foam                              | A          |
| 4             | Red artificial leather                  | A          |
| 5             | Purple artificial leather               | A          |
| 6             | Yellow artificial leather               | A          |
| 7             | Green artificial leather                | A          |
| 8             | Orange artificial leather               | A          |
| 9             | Dark blue artificial leather            | A          |
| 10            | Black fabric (zipper tape)              | A          |
| 11            | Silver metal excluding coating (zipper) | A          |
| 12            | Grey artificial leather T1              | B          |
| 13            | Light lake blue artificial leather T2   | B          |
| 14            | Blue green artificial leather T3        | B          |
| 15            | Green artificial leather T4             | B          |
| 16            | Lake blue artificial leather T5         | B          |
| 17            | Sky blue artificial leather T11         | B          |
| 18            | Yellow green artificial leather T12     | B          |
| 19            | Orange artificial leather T13           | B          |
| 20            | Baby blue artificial leather T15        | B          |
| 21            | Light brown artificial leather T16      | B          |
| 22            | Light grey artificial leather T17       | B          |
| 23            | White blue artificial leather T18       | B          |
| 24            | Pink artificial leather T19             | B          |
| 25            | Purple artificial leather T20           | B          |

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Mechanical and Physical Properties

Test Request: As specified in Consumer Safety Specification ASTM F963-23

| Section | Description                                                                                                                                                 | Result |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 4.1     | Material Quality                                                                                                                                            | P      |
| 4.3.7   | Stuffing Materials                                                                                                                                          | P      |
| 4.5     | Sound-producing Toys                                                                                                                                        | N/A    |
| 4.6     | Small Objects                                                                                                                                               | N/A    |
| 4.6.1   | Toys that are intended for children under 36 months of age                                                                                                  | N/A    |
| 4.6.2   | Mouth-actuated Toys                                                                                                                                         | N/A    |
| 4.6.3   | Toys that are intended for children over 36 months but less than 72 months                                                                                  | N/A    |
| 4.7     | Accessible Edges                                                                                                                                            | P      |
| 4.8     | Projections                                                                                                                                                 | N/A    |
| 4.8.1   | Bath Toy Projections                                                                                                                                        | N/A    |
| 4.9     | Accessible Points                                                                                                                                           | P      |
| 4.10    | Wires or Rods                                                                                                                                               | N/A    |
| 4.11    | Nails and Fasteners                                                                                                                                         | N/A    |
| 4.12    | Plastic Film                                                                                                                                                | N/A    |
| 4.13    | Folding Mechanisms and Hinges                                                                                                                               | N/A    |
| 4.14    | Cords, Straps and Elastics                                                                                                                                  | N/A    |
| 4.15    | Stability and Over-load Requirements                                                                                                                        | N/A    |
| 4.16    | Confined Spaces                                                                                                                                             | N/A    |
| 4.17    | Wheels, Tires, and Axles                                                                                                                                    | N/A    |
| 4.18    | Holes, Clearance and Accessibility of Mechanisms                                                                                                            | N/A    |
| 4.19    | Simulated Protective Devices                                                                                                                                | N/A    |
| 4.20    | Pacifiers                                                                                                                                                   | N/A    |
| 4.21    | Projectile Toys                                                                                                                                             | N/A    |
| 4.22    | Teethers and Teething Toys                                                                                                                                  | N/A    |
| 4.23    | Rattles                                                                                                                                                     | N/A    |
| 4.24    | Squeeze Toys                                                                                                                                                | N/A    |
| 4.25    | Battery-operated Toys<br>(exclude section 4.25.9 Battery-powered Ride-on Toys and section 4.25.10 Toys that Contain Secondary Cells or Secondary Batteries) | N/A    |
| 4.26    | Toys Intended to be Attached to a Crib or Playpen                                                                                                           | N/A    |
| 4.27    | Stuffed and Beanbag-type Toys                                                                                                                               | P      |
| 4.28    | Stroller and Carriage Toys                                                                                                                                  | N/A    |
| 4.30    | Toy Gun Marking                                                                                                                                             | N/A    |
| 4.31    | Balloons                                                                                                                                                    | N/A    |
| 4.32    | Certain Toys with Nearly Spherical Ends                                                                                                                     | N/A    |
| 4.33    | Marbles                                                                                                                                                     | N/A    |
| 4.34    | Balls                                                                                                                                                       | N/A    |
| 4.35    | Pompoms                                                                                                                                                     | N/A    |
| 4.36    | Hemispheric-shaped Objects                                                                                                                                  | N/A    |
| 4.37    | Yo Yo Elastic Tether Toys                                                                                                                                   | N/A    |
| 4.38    | Magnets                                                                                                                                                     | N/A    |
| 4.39    | Jaw Entrapment in Handles and Steering Wheels                                                                                                               | N/A    |
| 4.40    | Expanding Materials                                                                                                                                         | N/A    |

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

|        |                                                                            |     |
|--------|----------------------------------------------------------------------------|-----|
| 4.41   | Toy Chests                                                                 | N/A |
| 5      | Labeling Requirements                                                      |     |
| 5.1    | Federal Government Requirements                                            | P   |
| 5.2    | Age Grading Labeling                                                       | P   |
| 5.3    | Safety Labeling Requirements                                               | N/A |
| 5.4    | Aquatic Toys                                                               | N/A |
| 5.5    | Crib and Playpen Toys                                                      | N/A |
| 5.6    | Mobiles                                                                    | N/A |
| 5.7    | Stroller and Carriage Toys                                                 | N/A |
| 5.8    | Toys Intended to be Assembled by an Adult                                  | N/A |
| 5.9    | Simulated Protective Devices                                               | N/A |
| 5.10   | Toys with Functional Sharp Edges or Points                                 | N/A |
| 5.11   | Small Objects, Small Balls, Marbles and Balloons (16 CFR 1500.19)          | N/A |
| 5.12   | Art Materials (16 CFR 1500.14(b)(8))                                       | N/A |
| 5.13   | Electric Toys                                                              | N/A |
| 5.14   | Battery-operated Toys                                                      | N/A |
| 5.14.1 | Battery-powered Ride-on Toys                                               | N/A |
| 5.14.2 | Button or Coin Cell Batteries                                              | N/A |
| 5.15   | Promotional Materials                                                      | N/A |
| 5.16   | Magnets                                                                    | N/A |
| 6      | Instructional Literature                                                   |     |
| 6.1    | Definition and Description                                                 | N/A |
| 6.2    | Crib and Playpen Toys                                                      | N/A |
| 6.3    | Mobiles                                                                    | N/A |
| 6.4    | Toys Intended to be Assembled by an Adult                                  | N/A |
| 6.5    | Battery-operated Toys                                                      | N/A |
| 6.6    | Battery-powered Ride-on Toys                                               | N/A |
| 6.7    | Toys in Contact with Food                                                  | N/A |
| 6.8    | Toy Chests                                                                 | N/A |
| 6.9    | Manufacturer-supplied specialty or custom tools to access the battery(ies) | N/A |
| 7      | Producer's Markings                                                        |     |
| 7.1    | Producer's or Distributor's Name and Address                               | P   |
| 7.2    | Battery-powered Ride-on Toys                                               | N/A |
| 7.3    | Toy Chests                                                                 | N/A |

**Remark:**

P-Pass, F- Fail, N/A-Not Applicable, N/C-Not conduct as per client's request

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Total Lead Content in Metal

Test Request: Lead content as specified in Canada Consumer Product Safety Act – Consumer Products Containing Lead Regulations, SOR/2018-83.

Test Method: With reference to Product Safety Laboratory, Reference Manual, Book 5 - Laboratory Policies and Procedures, Part B: Test Methods Section, Method C02.4.1-2019, analysis is performed by ICP-OES.

| Test Item(s) | Unit  | Limit | MDL | Result |
|--------------|-------|-------|-----|--------|
|              |       |       |     | 11     |
| Lead (Pb)    | mg/kg | 90    | 10  | 20     |

### Remark:

Exception:

Each accessible part may contain more than 90 mg/kg of lead if

- a) lead is necessary to produce an essential characteristic of the part;
- b) no alternative part containing less lead is available; and
- c) the part, when tested in accordance with good laboratory practices, does not release more than 90 mg/kg of lead.

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Total Lead Content in Coating

Test Request: Lead content as specified in Canada Consumer Product Safety Act – Consumer Products Containing Lead Regulations, SOR/2018-83.

Test Method: With reference to Product Safety Laboratory, Reference Manual, Book 5 - Laboratory Policies and Procedures, Part B: Test Methods Section, Method C02.2.2-2020, analysis is performed by ICP-OES.

| Test Item(s) | Unit  | Limit | MDL | Result |
|--------------|-------|-------|-----|--------|
|              |       |       |     | 1      |
| Total Lead   | mg/kg | 90    | 10  | ND     |

### Remark:

Exception:

Each accessible part may contain more than 90 mg/kg of lead if

- a) lead is necessary to produce an essential characteristic of the part;
- b) no alternative part containing less lead is available; and
- c) the part, when tested in accordance with good laboratory practices, does not release more than 90 mg/kg of lead.

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Total Lead Content in Plastic

Test Request: Lead content as specified in Canada Consumer Product Safety Act - Consumer Products Containing Lead Regulations, SOR/2018-83.

Test Method: With reference to Product Safety Laboratory, Reference Manual, Book 5 - Laboratory Policies and Procedures, Part B: Test Methods Section, Method C02.3.2-2021, analysis is performed by ICP-OES.

| Test Item(s) | Unit  | Limit | MDL | Result |    |       |       |
|--------------|-------|-------|-----|--------|----|-------|-------|
|              |       |       |     | 2      | 3  | 4+5+6 | 7+8+9 |
| Total Lead   | mg/kg | 90    | 10  | ND     | ND | ND    | ND    |

| Test Item(s) | Unit  | Limit | MDL | Result |  |  |  |
|--------------|-------|-------|-----|--------|--|--|--|
|              |       |       |     | 10     |  |  |  |
| Total Lead   | mg/kg | 90    | 10  | ND     |  |  |  |

| Test Item(s) | Unit  | Limit | MDL | Result   |          |          |          |
|--------------|-------|-------|-----|----------|----------|----------|----------|
|              |       |       |     | 12+13+14 | 15+16+17 | 18+19+20 | 21+22+23 |
| Total Lead   | mg/kg | 90    | 10  | ND       | ND       | ND       | ND       |

| Test Item(s) | Unit  | Limit | MDL | Result |  |  |  |
|--------------|-------|-------|-----|--------|--|--|--|
|              |       |       |     | 24+25  |  |  |  |
| Total Lead   | mg/kg | 90    | 10  | ND     |  |  |  |

### Remark:

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

### Exception:

Each accessible part may contain more than 90 mg/kg of lead if

- a) lead is necessary to produce an essential characteristic of the part;
- b) no alternative part containing less lead is available; and
- c) the part, when tested in accordance with good laboratory practices, does not release more than 90 mg/kg of lead.

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Flammability of Toys

Test Request: As specified in ASTM F963-23, Section 4.2, testing procedure for materials other than textiles (excluding paper) used in toys is contained in Annex A5.

| Sample | Limit           | Result |
|--------|-----------------|--------|
| A      | 0.1 inch/second | P      |

**Remark:**

P-Pass, F- Fail, N/A-Not Applicable

### Tracking Label Assessment

Test Request: As per Consumer Product Safety Improvement Act (CPSIA) 2008 section 103 tracking labels for children products

| Labeling Content                                                                          | Observation Result | Location  | Conclusion |
|-------------------------------------------------------------------------------------------|--------------------|-----------|------------|
| Name of Manufacturer/ Import / Private Labeler in the tracking label                      | Provided           | Packaging | Pass       |
| Location of production                                                                    | Provided           | Packaging | Pass       |
| Date of production                                                                        | Provided           | Packaging | Pass       |
| Cohort information (including the batch, run number, or other identifying characteristic) | Provided           | Packaging | Pass       |
| Name of Manufacturer/ Import / Private Labeler in the tracking label                      | Provided           | Product   | Pass       |
| Location of production                                                                    | Provided           | Product   | Pass       |
| Date of production                                                                        | Provided           | Product   | Pass       |
| Cohort information (including the batch, run number, or other identifying characteristic) | Provided           | Product   | Pass       |

**Remark:**

The tracking label assessment was based on the submitted sample and the information provided by the applicant. There was no verification on the validity of such information.

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Heavy Metals

1) ASTM F963-23- Heavy Elements – Total Lead in Paint and Similar Surface-Coating Material (Clause 4.3.5.1(1))

Test Method: ASTM International Standard ASTM F963-23, Section 8.3.1 and Annex A7.

| Tested Item(s) | Unit  | Limit | MDL | Result |  |  |  |  |
|----------------|-------|-------|-----|--------|--|--|--|--|
|                |       |       |     | 1      |  |  |  |  |
| Total Lead     | mg/kg | 90    | 10  | ND     |  |  |  |  |

2) ASTM F963-23- Heavy Elements – Total Lead in Substrate Material (Clause 4.3.5.2(2)(a))

Test Method: ASTM International Standard ASTM F963-23, Section 8.3.1 and Annex A7.

| Tested Item(s)          | Unit  | Limit | MDL | Result |    |    |    |    |
|-------------------------|-------|-------|-----|--------|----|----|----|----|
|                         |       |       |     | 2      | 3  | 4  | 5  | 6  |
| Total Lead in Substrate | mg/kg | 100   | 10  | ND     | ND | ND | ND | ND |

| Tested Item(s)          | Unit  | Limit | MDL | Result |    |    |    |
|-------------------------|-------|-------|-----|--------|----|----|----|
|                         |       |       |     | 7      | 8  | 9  | 11 |
| Total Lead in Substrate | mg/kg | 100   | 10  | ND     | ND | ND | 20 |

| Tested Item(s)          | Unit  | Limit | MDL | Result |    |    |    |    |
|-------------------------|-------|-------|-----|--------|----|----|----|----|
|                         |       |       |     | 12     | 13 | 14 | 15 | 16 |
| Total Lead in Substrate | mg/kg | 100   | 10  | ND     | ND | ND | ND | ND |

| Tested Item(s)          | Unit  | Limit | MDL | Result |    |    |    |    |
|-------------------------|-------|-------|-----|--------|----|----|----|----|
|                         |       |       |     | 17     | 18 | 19 | 20 | 21 |
| Total Lead in Substrate | mg/kg | 100   | 10  | ND     | ND | ND | ND | ND |

| Tested Item(s)          | Unit  | Limit | MDL | Result |    |    |    |
|-------------------------|-------|-------|-----|--------|----|----|----|
|                         |       |       |     | 22     | 23 | 24 | 25 |
| Total Lead in Substrate | mg/kg | 100   | 10  | ND     | ND | ND | ND |

3) ASTM F963-23- Heavy Elements – Total Elements Content, Initial Screening for Soluble Migrated Elements Content in Surface Coatings and Substrates Other Than Modeling Clay (Clause 4.3.5.1(2) and 4.3.5.2(2)(b))

Test Method: ASTM International Standard ASTM F963-23, Section 8.3.1 and Annex A7.

| Tested Item(s) | Unit  | Limit | MDL | Result |    |    |    |    |
|----------------|-------|-------|-----|--------|----|----|----|----|
|                |       |       |     | 2      | 3  | 4  | 5  | 6  |
| Total Antimony | mg/kg | 60    | 5   | ND     | ND | ND | ND | ND |
| Total Arsenic  | mg/kg | 25    | 2.5 | ND     | ND | ND | ND | ND |
| Total Barium   | mg/kg | 1000  | 10  | ND     | ND | 16 | 14 | 10 |
| Total Cadmium  | mg/kg | 75    | 5   | ND     | ND | ND | ND | ND |
| Total Chromium | mg/kg | 60    | 5   | ND     | ND | ND | ND | ND |
| Total Lead     | mg/kg | 90    | 5   | ND     | ND | ND | ND | ND |
| Total Mercury  | mg/kg | 60    | 5   | ND     | ND | ND | ND | ND |
| Total Selenium | mg/kg | 500   | 10  | ND     | ND | ND | ND | ND |

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

| Tested Item(s) | Unit  | Limit | MDL | Result |    |    |    |    |
|----------------|-------|-------|-----|--------|----|----|----|----|
|                |       |       |     | 7      | 8  | 9  | 10 | 11 |
| Total Antimony | mg/kg | 60    | 5   | ND     | ND | ND | ND | ND |
| Total Arsenic  | mg/kg | 25    | 2.5 | ND     | ND | ND | ND | ND |
| Total Barium   | mg/kg | 1000  | 10  | ND     | 16 | 16 | ND | ND |
| Total Cadmium  | mg/kg | 75    | 5   | ND     | ND | ND | ND | ND |
| Total Chromium | mg/kg | 60    | 5   | ND     | ND | ND | ND | ND |
| Total Lead     | mg/kg | 90    | 5   | ND     | ND | ND | ND | ND |
| Total Mercury  | mg/kg | 60    | 5   | ND     | ND | ND | ND | ND |
| Total Selenium | mg/kg | 500   | 10  | ND     | ND | ND | ND | ND |

4) ASTM F963-23- Heavy Elements – Soluble Migrated Elements Content in Surface Coatings and Substrates Other Than Modeling Clay (Clause 4.3.5.1(2) and 4.3.5.2(2)(b))

Test Method: ASTM International Standard ASTM F963-23, Section 8.3.2 to 8.3.5 (excluding 8.3.5.5(3))

| Tested Item(s)   | Unit  | Limit | MDL | Result |    |    |    |    |
|------------------|-------|-------|-----|--------|----|----|----|----|
|                  |       |       |     | 12     | 13 | 14 | 15 | 16 |
| Soluble Antimony | mg/kg | 60    | 5   | ND     | ND | ND | ND | ND |
| Soluble Arsenic  | mg/kg | 25    | 5   | ND     | ND | ND | ND | ND |
| Soluble Barium   | mg/kg | 1000  | 10  | ND     | ND | ND | 13 | ND |
| Soluble Cadmium  | mg/kg | 75    | 5   | ND     | ND | ND | ND | ND |
| Soluble Chromium | mg/kg | 60    | 5   | ND     | ND | ND | ND | ND |
| Soluble Lead     | mg/kg | 90    | 10  | ND     | ND | ND | ND | ND |
| Soluble Mercury  | mg/kg | 60    | 5   | ND     | ND | ND | ND | ND |
| Soluble Selenium | mg/kg | 500   | 10  | ND     | ND | ND | ND | ND |

| Tested Item(s)   | Unit  | Limit | MDL | Result |    |    |    |    |
|------------------|-------|-------|-----|--------|----|----|----|----|
|                  |       |       |     | 17     | 18 | 19 | 20 | 21 |
| Soluble Antimony | mg/kg | 60    | 5   | ND     | ND | ND | ND | ND |
| Soluble Arsenic  | mg/kg | 25    | 5   | ND     | ND | ND | ND | ND |
| Soluble Barium   | mg/kg | 1000  | 10  | ND     | ND | ND | ND | ND |
| Soluble Cadmium  | mg/kg | 75    | 5   | ND     | ND | ND | ND | ND |
| Soluble Chromium | mg/kg | 60    | 5   | ND     | ND | ND | ND | ND |
| Soluble Lead     | mg/kg | 90    | 10  | ND     | ND | ND | ND | ND |
| Soluble Mercury  | mg/kg | 60    | 5   | ND     | ND | ND | ND | ND |
| Soluble Selenium | mg/kg | 500   | 10  | ND     | ND | ND | ND | ND |

| Tested Item(s)   | Unit  | Limit | MDL | Result |    |    |    |
|------------------|-------|-------|-----|--------|----|----|----|
|                  |       |       |     | 22     | 23 | 24 | 25 |
| Soluble Antimony | mg/kg | 60    | 5   | ND     | ND | ND | ND |
| Soluble Arsenic  | mg/kg | 25    | 5   | ND     | ND | ND | ND |
| Soluble Barium   | mg/kg | 1000  | 10  | ND     | ND | ND | ND |
| Soluble Cadmium  | mg/kg | 75    | 5   | ND     | ND | ND | ND |
| Soluble Chromium | mg/kg | 60    | 5   | ND     | ND | ND | ND |
| Soluble Lead     | mg/kg | 90    | 10  | ND     | ND | ND | ND |
| Soluble Mercury  | mg/kg | 60    | 5   | ND     | ND | ND | ND |
| Soluble Selenium | mg/kg | 500   | 10  | ND     | ND | ND | ND |

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

**Remark:**

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

The analytical results were adjusted by subtracting analytical correction factor.

The test result of component No.1 of migrated elements content is not applicable due to the sample weight of test portion is less than 10 mg.

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Phthalates Content

Test Request: Phthalates Content in Toys (including pacifiers, rattles, and teethingers) Material (ASTM F963-23, Section 4.3.8)

Test Method: CPSC-CH-C1001-09.4

| Test Item(s)                  | CAS No.    | Unit | Limit | MDL   | Result |    |    |
|-------------------------------|------------|------|-------|-------|--------|----|----|
|                               |            |      |       |       | 1      | 2  | 3  |
| Diisononylphthalate (DINP)    | 28553-12-0 | %    | 0.1   | 0.005 | ND     | ND | ND |
| Di-n-pentyl phthalate (DPENP) | 131-18-0   | %    | 0.1   | 0.005 | ND     | ND | ND |
| Di-n-hexyl phthalate (DHEXP)  | 84-75-3    | %    | 0.1   | 0.005 | ND     | ND | ND |
| Dicyclohexyl phthalate (DCHP) | 84-61-7    | %    | 0.1   | 0.005 | ND     | ND | ND |
| Diisobutyl phthalate (DIBP)   | 84-69-5    | %    | 0.1   | 0.005 | ND     | ND | ND |
| Diethylhexylphthalate (DEHP)  | 117-81-7   | %    | 0.1   | 0.005 | ND     | ND | ND |
| Dibutylphthalate (DBP)        | 84-74-2    | %    | 0.1   | 0.005 | ND     | ND | ND |
| Benzylbutylphthalate (BBP)    | 85-68-7    | %    | 0.1   | 0.005 | ND     | ND | ND |

| Test Item(s)                  | CAS No.    | Unit | Limit | MDL   | Result |    |    |
|-------------------------------|------------|------|-------|-------|--------|----|----|
|                               |            |      |       |       | 7+8+9  | 10 | 11 |
| Diisononylphthalate (DINP)    | 28553-12-0 | %    | 0.1   | 0.005 | ND     | ND | ND |
| Di-n-pentyl phthalate (DPENP) | 131-18-0   | %    | 0.1   | 0.005 | ND     | ND | ND |
| Di-n-hexyl phthalate (DHEXP)  | 84-75-3    | %    | 0.1   | 0.005 | ND     | ND | ND |
| Dicyclohexyl phthalate (DCHP) | 84-61-7    | %    | 0.1   | 0.005 | ND     | ND | ND |
| Diisobutyl phthalate (DIBP)   | 84-69-5    | %    | 0.1   | 0.005 | ND     | ND | ND |
| Diethylhexylphthalate (DEHP)  | 117-81-7   | %    | 0.1   | 0.005 | 0.007  | ND | ND |
| Dibutylphthalate (DBP)        | 84-74-2    | %    | 0.1   | 0.005 | ND     | ND | ND |
| Benzylbutylphthalate (BBP)    | 85-68-7    | %    | 0.1   | 0.005 | ND     | ND | ND |

| Test Item(s)                  | CAS No.    | Unit | Limit | MDL   | Result   |          |          |
|-------------------------------|------------|------|-------|-------|----------|----------|----------|
|                               |            |      |       |       | 15+16+17 | 18+19+20 | 21+22+23 |
| Diisononylphthalate (DINP)    | 28553-12-0 | %    | 0.1   | 0.005 | ND       | ND       | ND       |
| Di-n-pentyl phthalate (DPENP) | 131-18-0   | %    | 0.1   | 0.005 | ND       | ND       | ND       |
| Di-n-hexyl phthalate (DHEXP)  | 84-75-3    | %    | 0.1   | 0.005 | ND       | ND       | ND       |
| Dicyclohexyl phthalate (DCHP) | 84-61-7    | %    | 0.1   | 0.005 | ND       | ND       | ND       |
| Diisobutyl phthalate (DIBP)   | 84-69-5    | %    | 0.1   | 0.005 | ND       | ND       | ND       |
| Diethylhexylphthalate (DEHP)  | 117-81-7   | %    | 0.1   | 0.005 | 0.017    | 0.010    | 0.012    |
| Dibutylphthalate (DBP)        | 84-74-2    | %    | 0.1   | 0.005 | ND       | ND       | ND       |
| Benzylbutylphthalate (BBP)    | 85-68-7    | %    | 0.1   | 0.005 | ND       | ND       | ND       |

### Remarks:

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

MDL = method detection limit

ND = Not detected, less than MDL

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Total Lead Content in Substrate

Test Request: Total lead in substrate as specified in US Consumer Product Safety Improvement Act 2008 (CPSIA), Section 101

Test Method: CPSC-CH-E1001-08.3 for metal product, CPSC-CH-E1002-08.3 for nonmetal product.  
The sample was acid digested, and total lead content was determined by ICP-OES.

| Test Item(s)    | Unit  | Limit | MDL | Result |    |       |       |
|-----------------|-------|-------|-----|--------|----|-------|-------|
|                 |       |       |     | 2      | 3  | 4+5+6 | 7+8+9 |
| Total Lead (Pb) | mg/kg | 100   | 10  | ND     | ND | ND    | ND    |

| Test Item(s)    | Unit  | Limit | MDL | Result |    |
|-----------------|-------|-------|-----|--------|----|
|                 |       |       |     | 10     | 11 |
| Total Lead (Pb) | mg/kg | 100   | 10  | ND     | 20 |

| Test Item(s)    | Unit  | Limit | MDL | Result   |          |          |          |
|-----------------|-------|-------|-----|----------|----------|----------|----------|
|                 |       |       |     | 12+13+14 | 15+16+17 | 18+19+20 | 21+22+23 |
| Total Lead (Pb) | mg/kg | 100   | 10  | ND       | ND       | ND       | ND       |

| Test Item(s)    | Unit  | Limit | MDL | Result |  |
|-----------------|-------|-------|-----|--------|--|
|                 |       |       |     | 24+25  |  |
| Total Lead (Pb) | mg/kg | 100   | 10  | ND     |  |

### Remark:

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

\*\*\*TO BE CONTINUED\*\*\*

## **TEST RESULT**

### **Total Lead Content in Paint / Surface Coating**

Test Request: Total lead in paint/ similar surface coatings as specified in US Consumer Product Safety Improvement Act 2008 (CPSIA), Section 101

Test Method: CPSC-CH-E1003-09.1  
The sample was acid digested, and total lead content was determined by ICP-OES.

| Test Item(s)    | Unit  | Limit | MDL | Result |
|-----------------|-------|-------|-----|--------|
|                 |       |       |     | 1      |
| Total Lead (Pb) | mg/kg | 90    | 10  | ND     |

**Remark:**

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Phthalates Content

Test Request: Phthalates Content as specified in US Consumer Product Safety Improvement Act 2008 (CPSIA), Section 108

Test Method: CPSC-CH-C1001-09.3

| Test Item(s)                 | CAS No.    | Unit | Limit | MDL    | Result |    |    |
|------------------------------|------------|------|-------|--------|--------|----|----|
|                              |            |      |       |        | 1      | 2  | 3  |
| Dibutylphthalate (DBP)       | 84-74-2    | %    | 0.1   | 0.0050 | ND     | ND | ND |
| Benzylbutylphthalate (BBP)   | 85-68-7    | %    | 0.1   | 0.0050 | ND     | ND | ND |
| Diethylhexylphthalate (DEHP) | 117-81-7   | %    | 0.1   | 0.0050 | ND     | ND | ND |
| Di-n-octylphthalate (DNOP)   | 117-84-0   | %    | 0.1   | 0.0050 | ND     | ND | ND |
| Diisononylphthalate (DINP)   | 28553-12-0 | %    | 0.1   | 0.0050 | ND     | ND | ND |
| Diisodecylphthalate (DIDP)   | 26761-40-0 | %    | 0.1   | 0.0050 | ND     | ND | ND |

| Test Item(s)                 | CAS No.    | Unit | Limit | MDL    | Result |    |    |
|------------------------------|------------|------|-------|--------|--------|----|----|
|                              |            |      |       |        | 7+8+9  | 10 | 11 |
| Dibutylphthalate (DBP)       | 84-74-2    | %    | 0.1   | 0.0050 | ND     | ND | ND |
| Benzylbutylphthalate (BBP)   | 85-68-7    | %    | 0.1   | 0.0050 | ND     | ND | ND |
| Diethylhexylphthalate (DEHP) | 117-81-7   | %    | 0.1   | 0.0050 | 0.007  | ND | ND |
| Di-n-octylphthalate (DNOP)   | 117-84-0   | %    | 0.1   | 0.0050 | ND     | ND | ND |
| Diisononylphthalate (DINP)   | 28553-12-0 | %    | 0.1   | 0.0050 | ND     | ND | ND |
| Diisodecylphthalate (DIDP)   | 26761-40-0 | %    | 0.1   | 0.0050 | ND     | ND | ND |

| Test Item(s)                 | CAS No.    | Unit | Limit | MDL    | Result   |          |          |
|------------------------------|------------|------|-------|--------|----------|----------|----------|
|                              |            |      |       |        | 15+16+17 | 18+19+20 | 21+22+23 |
| Dibutylphthalate (DBP)       | 84-74-2    | %    | 0.1   | 0.0050 | ND       | ND       | ND       |
| Benzylbutylphthalate (BBP)   | 85-68-7    | %    | 0.1   | 0.0050 | ND       | ND       | ND       |
| Diethylhexylphthalate (DEHP) | 117-81-7   | %    | 0.1   | 0.0050 | 0.017    | 0.010    | 0.012    |
| Di-n-octylphthalate (DNOP)   | 117-84-0   | %    | 0.1   | 0.0050 | ND       | ND       | ND       |
| Diisononylphthalate (DINP)   | 28553-12-0 | %    | 0.1   | 0.0050 | ND       | ND       | ND       |
| Diisodecylphthalate (DIDP)   | 26761-40-0 | %    | 0.1   | 0.0050 | ND       | ND       | ND       |

### Remarks:

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

MDL = method detection limit

ND = Not detected, less than MDL

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Phthalates Content

Test Request: Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates as specified in CPSC 16 CFR part 1307.

Test Method: CPSC-CH-C1001-09.4

| Test Item(s)                  | CAS No.    | Unit | Limit | MDL   | Result |    |    |
|-------------------------------|------------|------|-------|-------|--------|----|----|
|                               |            |      |       |       | 1      | 2  | 3  |
| Diisononylphthalate (DINP)    | 28553-12-0 | %    | 0.1   | 0.005 | ND     | ND | ND |
| Di-n-pentyl phthalate (DPENP) | 131-18-0   | %    | 0.1   | 0.005 | ND     | ND | ND |
| Di-n-hexyl phthalate (DHEXP)  | 84-75-3    | %    | 0.1   | 0.005 | ND     | ND | ND |
| Dicyclohexyl phthalate (DCHP) | 84-61-7    | %    | 0.1   | 0.005 | ND     | ND | ND |
| Diisobutyl phthalate (DIBP)   | 84-69-5    | %    | 0.1   | 0.005 | ND     | ND | ND |
| Diethylhexylphthalate (DEHP)  | 117-81-7   | %    | 0.1   | 0.005 | ND     | ND | ND |
| Dibutylphthalate (DBP)        | 84-74-2    | %    | 0.1   | 0.005 | ND     | ND | ND |
| Benzylbutylphthalate (BBP)    | 85-68-7    | %    | 0.1   | 0.005 | ND     | ND | ND |

| Test Item(s)                  | CAS No.    | Unit | Limit | MDL   | Result |    |    |
|-------------------------------|------------|------|-------|-------|--------|----|----|
|                               |            |      |       |       | 7+8+9  | 10 | 11 |
| Diisononylphthalate (DINP)    | 28553-12-0 | %    | 0.1   | 0.005 | ND     | ND | ND |
| Di-n-pentyl phthalate (DPENP) | 131-18-0   | %    | 0.1   | 0.005 | ND     | ND | ND |
| Di-n-hexyl phthalate (DHEXP)  | 84-75-3    | %    | 0.1   | 0.005 | ND     | ND | ND |
| Dicyclohexyl phthalate (DCHP) | 84-61-7    | %    | 0.1   | 0.005 | ND     | ND | ND |
| Diisobutyl phthalate (DIBP)   | 84-69-5    | %    | 0.1   | 0.005 | ND     | ND | ND |
| Diethylhexylphthalate (DEHP)  | 117-81-7   | %    | 0.1   | 0.005 | 0.007  | ND | ND |
| Dibutylphthalate (DBP)        | 84-74-2    | %    | 0.1   | 0.005 | ND     | ND | ND |
| Benzylbutylphthalate (BBP)    | 85-68-7    | %    | 0.1   | 0.005 | ND     | ND | ND |

| Test Item(s)                  | CAS No.    | Unit | Limit | MDL   | Result   |          |          |
|-------------------------------|------------|------|-------|-------|----------|----------|----------|
|                               |            |      |       |       | 15+16+17 | 18+19+20 | 21+22+23 |
| Diisononylphthalate (DINP)    | 28553-12-0 | %    | 0.1   | 0.005 | ND       | ND       | ND       |
| Di-n-pentyl phthalate (DPENP) | 131-18-0   | %    | 0.1   | 0.005 | ND       | ND       | ND       |
| Di-n-hexyl phthalate (DHEXP)  | 84-75-3    | %    | 0.1   | 0.005 | ND       | ND       | ND       |
| Dicyclohexyl phthalate (DCHP) | 84-61-7    | %    | 0.1   | 0.005 | ND       | ND       | ND       |
| Diisobutyl phthalate (DIBP)   | 84-69-5    | %    | 0.1   | 0.005 | ND       | ND       | ND       |
| Diethylhexylphthalate (DEHP)  | 117-81-7   | %    | 0.1   | 0.005 | 0.017    | 0.010    | 0.012    |
| Dibutylphthalate (DBP)        | 84-74-2    | %    | 0.1   | 0.005 | ND       | ND       | ND       |
| Benzylbutylphthalate (BBP)    | 85-68-7    | %    | 0.1   | 0.005 | ND       | ND       | ND       |

### Remarks:

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

MDL = method detection limit

ND = Not detected, less than MDL

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Total Lead Content

Test Request: Total lead content as specified in US California Proposition 65.

Test Method: EPA 3050B:1996, EPA 3051A:2007, EPA 3052:1996, acid digestion/ microwave digestion method was used, analysis was performed by ICP-OES.

| Test Item(s) | Unit  | Limit | MDL | Result |    |       |       |
|--------------|-------|-------|-----|--------|----|-------|-------|
|              |       |       |     | 2      | 3  | 4+5+6 | 7+8+9 |
| Lead (Pb)    | mg/kg | 100   | 10  | ND     | ND | ND    | ND    |

| Test Item(s) | Unit  | Limit | MDL | Result |    |
|--------------|-------|-------|-----|--------|----|
|              |       |       |     | 10     | 11 |
| Lead (Pb)    | mg/kg | 100   | 10  | ND     | 20 |

| Test Item(s) | Unit  | Limit | MDL | Result   |          |          |          |
|--------------|-------|-------|-----|----------|----------|----------|----------|
|              |       |       |     | 12+13+14 | 15+16+17 | 18+19+20 | 21+22+23 |
| Lead (Pb)    | mg/kg | 100   | 10  | ND       | ND       | ND       | ND       |

| Test Item(s) | Unit  | Limit | MDL | Result |  |
|--------------|-------|-------|-----|--------|--|
|              |       |       |     | 24+25  |  |
| Lead (Pb)    | mg/kg | 100   | 10  | ND     |  |

### Remark:

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

The limit(s) was/were referred from various court cases. Compliance with the above stated limit(s) does not show compliance with Proposition 65 or a guarantee against possible legal action but provides a relative level of assurance against potential lawsuits.

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Total Lead Content

Test Request: Total lead content as specified in US California Proposition 65.

Test Method: EPA 3050B:1996, EPA 3051A:2007, EPA 3052:1996, acid digestion/ microwave digestion method was used, analysis was performed by ICP-OES.

| Test Item(s) | Unit  | Limit | MDL | Result |
|--------------|-------|-------|-----|--------|
|              |       |       |     | 1      |
| Lead (Pb)    | mg/kg | 90    | 10  | ND     |

### **Remark:**

The limit(s) was/were referred from various court cases. Compliance with the above stated limit(s) does not show compliance with Proposition 65 or a guarantee against possible legal action but provides a relative level of assurance against potential lawsuits.

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Total Lead Content

Test Request: Total lead content as specified in entry 63 of annex XVII of REACH Regulation (EC) No 1907/2006 and its amendment Regulation (EU) No 2015/628.

Test Method: EPA 3050B:1996, EPA 3051A:2007, EPA 3052:1996, acid digestion/ microwave digestion method was used, analysis was performed by ICP-OES.

| Test Item(s) | Unit  | Limit | MDL | Result |    |    |       |
|--------------|-------|-------|-----|--------|----|----|-------|
|              |       |       |     | 1      | 2  | 3  | 4+5+6 |
| Lead (Pb)    | mg/kg | 500   | 10  | ND     | ND | ND | ND    |

| Test Item(s) | Unit  | Limit | MDL | Result |    |    |
|--------------|-------|-------|-----|--------|----|----|
|              |       |       |     | 7+8+9  | 10 | 11 |
| Lead (Pb)    | mg/kg | 500   | 10  | ND     | ND | 20 |

| Test Item(s) | Unit  | Limit | MDL | Result   |          |          |          |
|--------------|-------|-------|-----|----------|----------|----------|----------|
|              |       |       |     | 12+13+14 | 15+16+17 | 18+19+20 | 21+22+23 |
| Lead (Pb)    | mg/kg | 500   | 10  | ND       | ND       | ND       | ND       |

| Test Item(s) | Unit  | Limit | MDL | Result |  |
|--------------|-------|-------|-----|--------|--|
|              |       |       |     | 24+25  |  |
| Lead (Pb)    | mg/kg | 500   | 10  | ND     |  |

### Remark:

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Physical and Mechanical Hazards

Test Request: As specified in European Standard on Safety of Toys EN 71-1:2014+A1:2018

| Section  | Description                                                                          | Result |
|----------|--------------------------------------------------------------------------------------|--------|
| 4        | General requirements                                                                 |        |
| 4.1      | Material cleanliness (by visual assessment)                                          | P      |
| 4.2      | Assembly                                                                             | N/A    |
| 4.3      | Flexible plastic sheeting                                                            | N/A    |
| 4.4      | Toy Bags                                                                             | N/A    |
| 4.5      | Glass                                                                                | N/A    |
| 4.6      | Expanding Materials                                                                  | N/A    |
| 4.7      | Edges                                                                                | P      |
| 4.8      | Points and Metallic Wires                                                            | P      |
| 4.9      | Protruding parts                                                                     | N/A    |
| 4.10     | Parts moving against each other                                                      |        |
| 4.10.1   | Folding and sliding mechanisms                                                       | N/A    |
| 4.10.2   | Driving mechanisms.                                                                  | N/A    |
| 4.10.3   | Hinges                                                                               | N/A    |
| 4.10.4   | Springs                                                                              | N/A    |
| 4.11     | Mouth-actuated toys and other toys intended to be put in the mouth                   | N/A    |
| 4.12     | Balloons                                                                             | N/A    |
| 4.13     | Cords of toy kites and other flying toys.                                            | N/A    |
| 4.14     | Enclosures                                                                           |        |
| 4.14.1   | Toys which a child can enter                                                         | N/A    |
| 4.14.2   | Masks and helmets                                                                    | N/A    |
| 4.15     | Toys intended to bear the mass of a child                                            |        |
| 4.15.1   | Toys propelled by the child or by other means                                        | N/A    |
| 4.15.2   | Toy bicycles                                                                         | N/A    |
| 4.15.3   | Rocking horses and similar toys                                                      | N/A    |
| 4.15.4   | Toys not propelled by a child                                                        | N/A    |
| 4.15.5   | Toys scooters                                                                        | N/A    |
| 4.16     | Heavy immobile toys                                                                  | N/A    |
| 4.17     | Projectiles                                                                          |        |
| 4.17.1   | General                                                                              | N/A    |
| 4.17.2   | All projectiles                                                                      | N/A    |
| 4.17.3   | Projectile toy with stored energy                                                    | N/A    |
| 4.17.4   | Certain projectile toys without stored energy                                        | N/A    |
| 4.18     | Aquatic toys and inflatable toys                                                     | N/A    |
| 4.19     | Percussion caps specifically designed for use in toys and toys using percussion caps | N/A    |
| 4.20     | Acoustics                                                                            |        |
| 4.20.2.1 | General                                                                              | N/A    |
| 4.20.2.2 | Close-to-the-ear toys                                                                | N/A    |
| 4.20.2.3 | Table-top or floor toys                                                              | N/A    |
| 4.20.2.4 | Hand-held toys                                                                       | N/A    |
| 4.20.2.5 | Toys using headphones or earphones                                                   | N/A    |
| 4.20.2.6 | Rattles                                                                              | N/A    |
| 4.20.2.7 | Squeeze toys                                                                         | N/A    |
| 4.20.2.8 | Pull-along or push toys                                                              | N/A    |
| 4.20.2.9 | Percussion toys                                                                      | N/A    |

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

| Section   | Description                                                              | Result |
|-----------|--------------------------------------------------------------------------|--------|
| 4.20.2.10 | Wind toys                                                                | N/A    |
| 4.20.2.11 | Cap-firing toys                                                          | N/A    |
| 4.20.2.12 | Voice toys                                                               | N/A    |
| 4.21      | Toys containing a non-electrical heat source                             | N/A    |
| 4.22      | Small balls                                                              | N/A    |
| 4.23      | Magnets                                                                  | N/A    |
| 4.24      | Yo-yo balls                                                              | N/A    |
| 4.25      | Toys attached to food                                                    | N/A    |
| 4.26      | Toy disguise costumes                                                    | N/A    |
| 4.27      | Flying toys                                                              |        |
| 4.27.1    | General                                                                  | N/A    |
| 4.27.2    | Rotors and propellers on flying toys                                     | N/A    |
| 4.27.3    | Rotors and propellers on remote controlled flying toys                   | N/A    |
| 5         | Toys intended for children under 36 months                               |        |
| 5.1       | General requirements                                                     | N/A    |
| 5.2       | Soft-filled toys and soft-filled parts of a toy                          | N/A    |
| 5.3       | Plastic sheeting                                                         | N/A    |
| 5.4       | Cords, chains and electrical cables in toys                              | N/A    |
| 5.5       | Liquid-filled toys                                                       | N/A    |
| 5.6       | Speed limitation of electrically-driven ride-on toys                     | N/A    |
| 5.7       | Glass and porcelain                                                      | N/A    |
| 5.8       | Shape and size of certain toys                                           | N/A    |
| 5.9       | Toys comprising monofilament fibres                                      | N/A    |
| 5.10      | Small balls                                                              | N/A    |
| 5.11      | Play figures                                                             | N/A    |
| 5.12      | Hemispheric-shaped toys                                                  | N/A    |
| 5.13      | Suction cups                                                             | N/A    |
| 5.14      | Straps intended to be worn fully or partially around the neck            | N/A    |
| 5.15      | Sledges with cords for pulling                                           | N/A    |
| 6         | Packaging                                                                | N/A    |
| 7         | Warnings, markings and instructions for use                              |        |
| 7.1       | General                                                                  | P      |
| 7.2       | Toys not intended for children under 36 months                           | P      |
| 7.3       | Latex Balloons                                                           | N/A    |
| 7.4       | Aquatic toys                                                             | N/A    |
| 7.5       | Functional Toys                                                          | N/A    |
| 7.6       | Hazardous sharp functional edges and points                              | N/A    |
| 7.7       | Projectiles toys                                                         | N/A    |
| 7.8       | Imitation protective masks and helmets                                   | N/A    |
| 7.9       | Toy kites                                                                | N/A    |
| 7.10      | Roller skates, inline skates, skateboards and certain other ride-on toys | N/A    |
| 7.11      | Toys intended to be strung across a cradle, cot, or perambulator         | N/A    |
| 7.12      | Liquid-filled teethers                                                   | N/A    |
| 7.13      | Percussion caps specifically designed for use in toys                    | N/A    |
| 7.14      | Acoustics                                                                | N/A    |
| 7.15      | Toys bicycles                                                            | N/A    |
| 7.16      | Toys intended to bear the mass of a child                                | N/A    |
| 7.17      | Toys comprising monofilament fibres                                      | N/A    |
| 7.18      | Toy scooters                                                             | N/A    |

\*\*\*TO BE CONTINUED\*\*\*

## **TEST RESULT**

| Section | Description                                                                               | Result |
|---------|-------------------------------------------------------------------------------------------|--------|
| 7.19    | Rocking horses and similar toys                                                           | N/A    |
| 7.20    | Magnetic/electrical experimental sets                                                     | N/A    |
| 7.21    | Toy with electrical cables exceeding 300mm in length                                      | N/A    |
| 7.22    | Toys with cords or chains intended for children of 18 months and over but under 36 months | N/A    |
| 7.23    | Toys intended to be attached to a cradle, cot or perambulator                             | N/A    |
| 7.24    | Sledges with cords for pulling                                                            | N/A    |
| 7.25    | Flying toys                                                                               |        |
| 7.25.1  | Flying toys                                                                               | N/A    |
| 7.25.2  | Remote controlled flying toys                                                             | N/A    |
| 7.26    | Improvised projectiles                                                                    | N/A    |

**Remark:**

P - Pass, F - Fail, N/A - Not Applicable, N/C - Not Conduct as per client's request

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Physical and Mechanical Hazards

Test Request: As specified in British Standard on Safety of Toys BS EN 71-1:2014+A1:2018

| Section  | Description                                                                          | Result |
|----------|--------------------------------------------------------------------------------------|--------|
| 4        | General requirements                                                                 |        |
| 4.1      | Material cleanliness (by visual assessment)                                          | P      |
| 4.2      | Assembly                                                                             | N/A    |
| 4.3      | Flexible plastic sheeting                                                            | N/A    |
| 4.4      | Toy Bags                                                                             | N/A    |
| 4.5      | Glass                                                                                | N/A    |
| 4.6      | Expanding Materials                                                                  | N/A    |
| 4.7      | Edges                                                                                | P      |
| 4.8      | Points and Metallic Wires                                                            | P      |
| 4.9      | Protruding parts                                                                     | N/A    |
| 4.10     | Parts moving against each other                                                      |        |
| 4.10.1   | Folding and sliding mechanisms                                                       | N/A    |
| 4.10.2   | Driving mechanisms.                                                                  | N/A    |
| 4.10.3   | Hinges                                                                               | N/A    |
| 4.10.4   | Springs                                                                              | N/A    |
| 4.11     | Mouth-actuated toys and other toys intended to be put in the mouth                   | N/A    |
| 4.12     | Balloons                                                                             | N/A    |
| 4.13     | Cords of toy kites and other flying toys.                                            | N/A    |
| 4.14     | Enclosures                                                                           |        |
| 4.14.1   | Toys which a child can enter                                                         | N/A    |
| 4.14.2   | Masks and helmets                                                                    | N/A    |
| 4.15     | Toys intended to bear the mass of a child                                            |        |
| 4.15.1   | Toys propelled by the child or by other means                                        | N/A    |
| 4.15.2   | Toy bicycles                                                                         | N/A    |
| 4.15.3   | Rocking horses and similar toys                                                      | N/A    |
| 4.15.4   | Toys not propelled by a child                                                        | N/A    |
| 4.15.5   | Toys scooters                                                                        | N/A    |
| 4.16     | Heavy immobile toys                                                                  | N/A    |
| 4.17     | Projectiles                                                                          |        |
| 4.17.1   | General                                                                              | N/A    |
| 4.17.2   | All projectiles                                                                      | N/A    |
| 4.17.3   | Projectile toy with stored energy                                                    | N/A    |
| 4.17.4   | Certain projectile toys without stored energy                                        | N/A    |
| 4.18     | Aquatic toys and inflatable toys                                                     | N/A    |
| 4.19     | Percussion caps specifically designed for use in toys and toys using percussion caps | N/A    |
| 4.20     | Acoustics                                                                            |        |
| 4.20.2.1 | General                                                                              | N/A    |
| 4.20.2.2 | Close-to-the-ear toys                                                                | N/A    |
| 4.20.2.3 | Table-top or floor toys                                                              | N/A    |
| 4.20.2.4 | Hand-held toys                                                                       | N/A    |
| 4.20.2.5 | Toys using headphones or earphones                                                   | N/A    |
| 4.20.2.6 | Rattles                                                                              | N/A    |
| 4.20.2.7 | Squeeze toys                                                                         | N/A    |
| 4.20.2.8 | Pull-along or push toys                                                              | N/A    |
| 4.20.2.9 | Percussion toys                                                                      | N/A    |

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

| Section   | Description                                                              | Result |
|-----------|--------------------------------------------------------------------------|--------|
| 4.20.2.10 | Wind toys                                                                | N/A    |
| 4.20.2.11 | Cap-firing toys                                                          | N/A    |
| 4.20.2.12 | Voice toys                                                               | N/A    |
| 4.21      | Toys containing a non-electrical heat source                             | N/A    |
| 4.22      | Small balls                                                              | N/A    |
| 4.23      | Magnets                                                                  | N/A    |
| 4.24      | Yo-yo balls                                                              | N/A    |
| 4.25      | Toys attached to food                                                    | N/A    |
| 4.26      | Toy disguise costumes                                                    | N/A    |
| 4.27      | Flying toys                                                              | N/A    |
| 4.27.1    | General                                                                  | N/A    |
| 4.27.2    | Rotors and propellers on flying toys                                     | N/A    |
| 4.27.3    | Rotors and propellers on remote controlled flying toys                   | N/A    |
| 5         | Toys intended for children under 36 months                               |        |
| 5.1       | General requirements                                                     | N/A    |
| 5.2       | Soft-filled toys and soft-filled parts of a toy                          | N/A    |
| 5.3       | Plastic sheeting                                                         | N/A    |
| 5.4       | Cords, chains and electrical cables in toys                              | N/A    |
| 5.5       | Liquid-filled toys                                                       | N/A    |
| 5.6       | Speed limitation of electrically-driven ride-on toys                     | N/A    |
| 5.7       | Glass and porcelain                                                      | N/A    |
| 5.8       | Shape and size of certain toys                                           | N/A    |
| 5.9       | Toys comprising monofilament fibres                                      | N/A    |
| 5.10      | Small balls                                                              | N/A    |
| 5.11      | Play figures                                                             | N/A    |
| 5.12      | Hemispheric-shaped toys                                                  | N/A    |
| 5.13      | Suction cups                                                             | N/A    |
| 5.14      | Straps intended to be worn fully or partially around the neck            | N/A    |
| 5.15      | Sledges with cords for pulling                                           | N/A    |
| 6         | Packaging                                                                | N/A    |
| 7         | Warnings, markings and instructions for use                              |        |
| 7.1       | General                                                                  | P      |
| 7.2       | Toys not intended for children under 36 months                           | P      |
| 7.3       | Latex Balloons                                                           | N/A    |
| 7.4       | Aquatic toys                                                             | N/A    |
| 7.5       | Functional Toys                                                          | N/A    |
| 7.6       | Hazardous sharp functional edges and points                              | N/A    |
| 7.7       | Projectiles toys                                                         | N/A    |
| 7.8       | Imitation protective masks and helmets                                   | N/A    |
| 7.9       | Toy kites                                                                | N/A    |
| 7.10      | Roller skates, inline skates, skateboards and certain other ride-on toys | N/A    |
| 7.11      | Toys intended to be strung across a cradle, cot, or perambulator         | N/A    |
| 7.12      | Liquid-filled teethers                                                   | N/A    |
| 7.13      | Percussion caps specifically designed for use in toys                    | N/A    |
| 7.14      | Acoustics                                                                | N/A    |
| 7.15      | Toys bicycles                                                            | N/A    |
| 7.16      | Toys intended to bear the mass of a child                                | N/A    |
| 7.17      | Toys comprising monofilament fibres                                      | N/A    |
| 7.18      | Toy scooters                                                             | N/A    |

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

| Section | Description                                                                               | Result |
|---------|-------------------------------------------------------------------------------------------|--------|
| 7.19    | Rocking horses and similar toys                                                           | N/A    |
| 7.20    | Magnetic/electrical experimental sets                                                     | N/A    |
| 7.21    | Toy with electrical cables exceeding 300mm in length                                      | N/A    |
| 7.22    | Toys with cords or chains intended for children of 18 months and over but under 36 months | N/A    |
| 7.23    | Toys intended to be attached to a cradle, cot or perambulator                             | N/A    |
| 7.24    | Sledges with cords for pulling                                                            | N/A    |
| 7.25    | Flying toys                                                                               |        |
| 7.25.1  | Flying toys                                                                               | N/A    |
| 7.25.2  | Remote controlled flying toys                                                             | N/A    |
| 7.26    | Improvised projectiles                                                                    | N/A    |

**Remark:**

P - Pass, F - Fail, N/A - Not Applicable, N/C - Not Conduct as per client's request

\*\*\*TO BE CONTINUED\*\*\*

## **TEST RESULT**

### **Labeling Requirement**

Test Request: Labeling requirement including Washing/Cleaning instruction, CE mark, importer / manufacturer name and address, product identification as specified in Directive 2009/48/EC  
- Safety of toys

| Labeling Content              | Observation Result                              | Location | Conclusion |
|-------------------------------|-------------------------------------------------|----------|------------|
| Washing/Cleaning Instruction  | Not Applicable                                  | -        | -          |
| CE Mark                       | Present, Correct form, CE marking (height >5mm) | Product  | Pass       |
| Importer's Name & Address     | Present                                         | Product  | Pass       |
| Manufacturer's Name & Address | Present                                         | Product  | Pass       |
| Product ID                    | Present                                         | Product  | Pass       |

### **Labeling Requirement for United Kingdom**

Test Request: Labeling requirement including Washing/Cleaning instruction, compliance marking, importer / manufacturer name and address, product identification as specified in The Toys (Safety) Regulations 2011 and The Product Safety and Metrology etc. (Amendment etc.) (EU Exit) Regulations 2019

| Labeling Content              | Observation Result                                | Location | Conclusion |
|-------------------------------|---------------------------------------------------|----------|------------|
| Washing/Cleaning Instruction  | Not Applicable                                    | -        | -          |
| UKCA Marking                  | Present, Correct form, UKCA marking (height >5mm) | Product  | Pass       |
| Importer's Name & Address     | Present                                           | Product  | Pass       |
| Manufacturer's Name & Address | Present                                           | Product  | Pass       |
| Product ID                    | Present                                           | Product  | Pass       |

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Flammability of Toys

Test Request: As Specified in European Standard on Safety of Toys EN 71-2:2020

| Section | Description                                                           | Result |
|---------|-----------------------------------------------------------------------|--------|
| 4       | Requirements                                                          |        |
| 4.1     | General Requirements                                                  | P      |
| 4.2     | Toys to be worn on the head                                           | N/A    |
| 4.3     | Toy disguise costumes and toys intended to be worn by a child in play | N/A    |
| 4.4     | Toys intended to be entered by a child                                | N/A    |
| 4.5     | Soft-filled toys                                                      | P      |

**Remark:**

P - Pass, F - Fail, N/A - Not Applicable

### Flammability of Toys

Test Request: As Specified in European Standard on Safety of Toys BS EN 71-2:2020

| Section | Description                                                           | Result |
|---------|-----------------------------------------------------------------------|--------|
| 4       | Requirements                                                          |        |
| 4.1     | General Requirements                                                  | P      |
| 4.2     | Toys to be worn on the head                                           | N/A    |
| 4.3     | Toy disguise costumes and toys intended to be worn by a child in play | N/A    |
| 4.4     | Toys intended to be entered by a child                                | N/A    |
| 4.5     | Soft-filled toys                                                      | P      |

**Remark:**

P - Pass, F - Fail, N/A - Not Applicable

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Migration of Certain Elements

Test Request: Migration of certain elements as specified in European Standard on Safety of Toys EN 71-3:2019+A1:2021.

Test Method: General elements, with reference to EN 71-3:2019+A1:2021, analysis was performed by ICP-MS;  
Extractable Chromium (VI), with reference to EN 71-3:2019+A1:2021, analysis was performed by IC-ICP-MS;  
Extractable organic tin, with reference to EN 71-3:2019+A1:2021, analysis was performed by GC-MS.

| Test Item(s):                          | Unit  | Result |     |     |     |     |     |     |
|----------------------------------------|-------|--------|-----|-----|-----|-----|-----|-----|
|                                        |       | 2      | 3   | 4   | 5   | 6   | 7   | 8   |
| Category Type                          |       | III    | III | III | III | III | III | III |
| Extractable Lead (Pb)                  | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Antimony (Sb)              | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Arsenic (As)               | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Barium (Ba)                | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Cadmium (Cd)               | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Mercury (Hg)               | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Selenium (Se)              | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Boron (B)                  | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Cobalt (Co)                | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Manganese (Mn)             | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Strontium (Sr)             | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Zinc (Zn)                  | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Copper (Cu)                | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Aluminum (Al)              | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Nickel (Ni)                | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Tin (Sn)                   | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Chromium#2                 | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Organic Tin#1              | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Chromium (III) (Cr III) #3 | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Chromium (VI) (Cr VI)      | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  |

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

| Test Item(s):                          | Unit  | Result |     |                      |
|----------------------------------------|-------|--------|-----|----------------------|
|                                        |       | 9      | 10  | 11                   |
| Category Type                          |       | III    | III | III                  |
| Extractable Lead (Pb)                  | mg/kg | ND     | ND  | ND                   |
| Extractable Antimony (Sb)              | mg/kg | ND     | ND  | ND                   |
| Extractable Arsenic (As)               | mg/kg | ND     | ND  | ND                   |
| Extractable Barium (Ba)                | mg/kg | ND     | ND  | ND                   |
| Extractable Cadmium (Cd)               | mg/kg | ND     | ND  | ND                   |
| Extractable Mercury (Hg)               | mg/kg | ND     | ND  | ND                   |
| Extractable Selenium (Se)              | mg/kg | ND     | ND  | ND                   |
| Extractable Boron (B)                  | mg/kg | ND     | ND  | ND                   |
| Extractable Cobalt (Co)                | mg/kg | ND     | ND  | ND                   |
| Extractable Manganese (Mn)             | mg/kg | ND     | ND  | ND                   |
| Extractable Strontium (Sr)             | mg/kg | ND     | ND  | ND                   |
| Extractable Zinc (Zn)                  | mg/kg | ND     | ND  | 4.21x10 <sup>3</sup> |
| Extractable Copper (Cu)                | mg/kg | ND     | ND  | ND                   |
| Extractable Aluminum (Al)              | mg/kg | ND     | ND  | 172                  |
| Extractable Nickel (Ni)                | mg/kg | ND     | ND  | ND                   |
| Extractable Tin (Sn)                   | mg/kg | ND     | ND  | ND                   |
| Extractable Chromium#2                 | mg/kg | ND     | ND  | ND                   |
| Extractable Organic Tin#1              | mg/kg | ND     | ND  | ND                   |
| Extractable Chromium (III) (Cr III) #3 | mg/kg | ND     | ND  | ND                   |
| Extractable Chromium (VI) (Cr VI)      | mg/kg | ND     | ND  | ND                   |

| Test Item(s):                          | Unit  | Result |     |     |     |     |     |     |     |
|----------------------------------------|-------|--------|-----|-----|-----|-----|-----|-----|-----|
|                                        |       | 12     | 13  | 14  | 15  | 16  | 17  | 18  | 19  |
| Category Type                          |       | III    | III | III | III | III | III | III | III |
| Extractable Lead (Pb)                  | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Antimony (Sb)              | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Arsenic (As)               | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Barium (Ba)                | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Cadmium (Cd)               | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Mercury (Hg)               | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Selenium (Se)              | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Boron (B)                  | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Cobalt (Co)                | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Manganese (Mn)             | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Strontium (Sr)             | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Zinc (Zn)                  | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Copper (Cu)                | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Aluminum (Al)              | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Nickel (Ni)                | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Tin (Sn)                   | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Chromium#2                 | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Organic Tin#1              | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Chromium (III) (Cr III) #3 | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Chromium (VI) (Cr VI)      | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  | ND  |

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

| Test Item(s):                          | Unit  | Result |     |     |     |     |     |
|----------------------------------------|-------|--------|-----|-----|-----|-----|-----|
|                                        |       | 20     | 21  | 22  | 23  | 24  | 25  |
| Category Type                          |       | III    | III | III | III | III | III |
| Extractable Lead (Pb)                  | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  |
| Extractable Antimony (Sb)              | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  |
| Extractable Arsenic (As)               | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  |
| Extractable Barium (Ba)                | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  |
| Extractable Cadmium (Cd)               | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  |
| Extractable Mercury (Hg)               | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  |
| Extractable Selenium (Se)              | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  |
| Extractable Boron (B)                  | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  |
| Extractable Cobalt (Co)                | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  |
| Extractable Manganese (Mn)             | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  |
| Extractable Strontium (Sr)             | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  |
| Extractable Zinc (Zn)                  | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  |
| Extractable Copper (Cu)                | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  |
| Extractable Aluminum (Al)              | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  |
| Extractable Nickel (Ni)                | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  |
| Extractable Tin (Sn)                   | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  |
| Extractable Chromium#2                 | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  |
| Extractable Organic Tin#1              | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  |
| Extractable Chromium (III) (Cr III) #3 | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  |
| Extractable Chromium (VI) (Cr VI)      | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  |

**Note:**

#1 - The migration of organic tin is expressed as tributyltin.

#2 - If the migration of total Chromium is below the maximum limit for Chromium (VI), it can be inferred that the material complies with the requirements for both Chromium(III) and Chromium(VI).

#3 - In particular Chromium (III) is calculated by subtracting the Chromium (VI) concentration from the total chromium concentration.

**Remarks:**

The test result of component No.1 of migrated elements content is not applicable due to the sample weight of test portion is less than 10 mg.

mg/kg = milligram per kilogram

MDL = Method Detection Limit

ND = Not Detected, less than MDL

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

Limits –MDL per category type:

| Test Item(s):                       | Unit  | Limit | MDL  | Limit | MDL   | Limit  | MDL  |
|-------------------------------------|-------|-------|------|-------|-------|--------|------|
| Category Type                       |       | I     |      | II    |       | III    |      |
| Extractable Lead (Pb)               | mg/kg | 2.0   | 1.0  | 0.5   | 0.2   | 23     | 10   |
| Extractable Antimony (Sb)           | mg/kg | 45    | 5    | 11.3  | 1     | 560    | 10   |
| Extractable Arsenic (As)            | mg/kg | 3.8   | 0.2  | 0.9   | 0.1   | 47     | 5    |
| Extractable Barium (Ba)             | mg/kg | 1500  | 50   | 375   | 10    | 18750  | 50   |
| Extractable Cadmium (Cd)            | mg/kg | 1.3   | 0.1  | 0.3   | 0.05  | 17     | 1    |
| Extractable Mercury (Hg)            | mg/kg | 7.5   | 0.5  | 1.9   | 0.2   | 94     | 10   |
| Extractable Selenium (Se)           | mg/kg | 37.5  | 2    | 9.4   | 1     | 460    | 10   |
| Extractable Boron (B)               | mg/kg | 1200  | 50   | 300   | 10    | 15000  | 50   |
| Extractable Cobalt (Co)             | mg/kg | 10.5  | 1    | 2.6   | 0.2   | 130    | 10   |
| Extractable Manganese (Mn)          | mg/kg | 1200  | 50   | 300   | 10    | 15000  | 50   |
| Extractable Strontium (Sr)          | mg/kg | 4500  | 50   | 1125  | 50    | 56000  | 50   |
| Extractable Zinc (Zn)               | mg/kg | 3750  | 50   | 938   | 50    | 46000  | 50   |
| Extractable Copper (Cu)             | mg/kg | 622.5 | 10   | 156   | 10    | 7700   | 50   |
| Extractable Aluminum (Al)           | mg/kg | 2250  | 50   | 560   | 50    | 28130  | 50   |
| Extractable Nickel (Ni)             | mg/kg | 75    | 5    | 18.8  | 2     | 930    | 10   |
| Extractable Tin (Sn)                | mg/kg | 15000 | 50   | 3750  | 50    | 180000 | 50   |
| Extractable Organic Tin             | mg/kg | 0.9   | 0.2  | 0.2   | 0.2   | 12     | 0.2  |
| Extractable Chromium                | mg/kg | -     | 0.02 | -     | 0.005 | -      | 0.02 |
| Extractable Chromium (III) (Cr III) | mg/kg | 37.5  | 2    | 9.4   | 1     | 460    | 10   |
| Extractable Chromium (VI) (Cr VI)   | mg/kg | 0.02  | 0.02 | 0.005 | 0.005 | 0.053  | 0.02 |

Category I: dry, brittle, powder-like or pliable toy material

Category II: liquid or sticky toy material

Category III: scrapped-off toy material

“-” = Not Regulated

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Migration of Certain Elements

Test Request: Migration of certain elements as specified in British Standard on Safety of Toys BS EN 71-3:2019+A1:2021.

Test Method: General elements, with reference to BS EN 71-3:2019+A1:2021, analysis was performed by ICP-MS;  
Extractable Chromium (VI), with reference to BS EN 71-3:2019+A1:2021, analysis was performed by IC-ICP-MS;  
Extractable organic tin, with reference to BS EN 71-3:2019+A1:2021, analysis was performed by GC-MS.

| Test Item(s):                          | Unit  | Result |     |     |     |     |     |     |
|----------------------------------------|-------|--------|-----|-----|-----|-----|-----|-----|
|                                        |       | 2      | 3   | 4   | 5   | 6   | 7   | 8   |
| Category Type                          |       | III    | III | III | III | III | III | III |
| Extractable Lead (Pb)                  | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Antimony (Sb)              | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Arsenic (As)               | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Barium (Ba)                | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Cadmium (Cd)               | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Mercury (Hg)               | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Selenium (Se)              | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Boron (B)                  | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Cobalt (Co)                | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Manganese (Mn)             | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Strontium (Sr)             | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Zinc (Zn)                  | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Copper (Cu)                | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Aluminum (Al)              | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Nickel (Ni)                | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Tin (Sn)                   | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Chromium#2                 | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Organic Tin#1              | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Chromium (III) (Cr III) #3 | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Chromium (VI) (Cr VI)      | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  |

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

| Test Item(s):                          | Unit  | Result |     |                      |
|----------------------------------------|-------|--------|-----|----------------------|
|                                        |       | 9      | 10  | 11                   |
| Category Type                          |       | III    | III | III                  |
| Extractable Lead (Pb)                  | mg/kg | ND     | ND  | ND                   |
| Extractable Antimony (Sb)              | mg/kg | ND     | ND  | ND                   |
| Extractable Arsenic (As)               | mg/kg | ND     | ND  | ND                   |
| Extractable Barium (Ba)                | mg/kg | ND     | ND  | ND                   |
| Extractable Cadmium (Cd)               | mg/kg | ND     | ND  | ND                   |
| Extractable Mercury (Hg)               | mg/kg | ND     | ND  | ND                   |
| Extractable Selenium (Se)              | mg/kg | ND     | ND  | ND                   |
| Extractable Boron (B)                  | mg/kg | ND     | ND  | ND                   |
| Extractable Cobalt (Co)                | mg/kg | ND     | ND  | ND                   |
| Extractable Manganese (Mn)             | mg/kg | ND     | ND  | ND                   |
| Extractable Strontium (Sr)             | mg/kg | ND     | ND  | ND                   |
| Extractable Zinc (Zn)                  | mg/kg | ND     | ND  | 4.21x10 <sup>3</sup> |
| Extractable Copper (Cu)                | mg/kg | ND     | ND  | ND                   |
| Extractable Aluminum (Al)              | mg/kg | ND     | ND  | 172                  |
| Extractable Nickel (Ni)                | mg/kg | ND     | ND  | ND                   |
| Extractable Tin (Sn)                   | mg/kg | ND     | ND  | ND                   |
| Extractable Chromium#2                 | mg/kg | ND     | ND  | ND                   |
| Extractable Organic Tin#1              | mg/kg | ND     | ND  | ND                   |
| Extractable Chromium (III) (Cr III) #3 | mg/kg | ND     | ND  | ND                   |
| Extractable Chromium (VI) (Cr VI)      | mg/kg | ND     | ND  | ND                   |

| Test Item(s):                          | Unit  | Result |     |     |     |     |     |     |     |
|----------------------------------------|-------|--------|-----|-----|-----|-----|-----|-----|-----|
|                                        |       | 12     | 13  | 14  | 15  | 16  | 17  | 18  | 19  |
| Category Type                          |       | III    | III | III | III | III | III | III | III |
| Extractable Lead (Pb)                  | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Antimony (Sb)              | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Arsenic (As)               | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Barium (Ba)                | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Cadmium (Cd)               | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Mercury (Hg)               | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Selenium (Se)              | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Boron (B)                  | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Cobalt (Co)                | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Manganese (Mn)             | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Strontium (Sr)             | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Zinc (Zn)                  | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Copper (Cu)                | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Aluminum (Al)              | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Nickel (Ni)                | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Tin (Sn)                   | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Chromium#2                 | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Organic Tin#1              | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Chromium (III) (Cr III) #3 | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  | ND  |
| Extractable Chromium (VI) (Cr VI)      | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  | ND  | ND  |

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

| Test Item(s):                          | Unit  | Result |     |     |     |     |     |
|----------------------------------------|-------|--------|-----|-----|-----|-----|-----|
|                                        |       | 20     | 21  | 22  | 23  | 24  | 25  |
| Category Type                          |       | III    | III | III | III | III | III |
| Extractable Lead (Pb)                  | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  |
| Extractable Antimony (Sb)              | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  |
| Extractable Arsenic (As)               | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  |
| Extractable Barium (Ba)                | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  |
| Extractable Cadmium (Cd)               | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  |
| Extractable Mercury (Hg)               | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  |
| Extractable Selenium (Se)              | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  |
| Extractable Boron (B)                  | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  |
| Extractable Cobalt (Co)                | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  |
| Extractable Manganese (Mn)             | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  |
| Extractable Strontium (Sr)             | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  |
| Extractable Zinc (Zn)                  | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  |
| Extractable Copper (Cu)                | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  |
| Extractable Aluminum (Al)              | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  |
| Extractable Nickel (Ni)                | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  |
| Extractable Tin (Sn)                   | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  |
| Extractable Chromium#2                 | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  |
| Extractable Organic Tin#1              | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  |
| Extractable Chromium (III) (Cr III) #3 | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  |
| Extractable Chromium (VI) (Cr VI)      | mg/kg | ND     | ND  | ND  | ND  | ND  | ND  |

**Note:**

#1 - The migration of organic tin is expressed as tributyltin.

#2 - If the migration of total Chromium is below the maximum limit for Chromium (VI), it can be inferred that the material complies with the requirements for both Chromium(III) and Chromium(VI).

#3 - In particular Chromium (III) is calculated by subtracting the Chromium (VI) concentration from the total chromium concentration.

**Remarks:**

The test result of component No.1 of migrated elements content is not applicable due to the sample weight of test portion is less than 10 mg.

mg/kg = milligram per kilogram

MDL = Method Detection Limit

ND = Not Detected, less than MDL

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

Limits –MDL per category type:

| Test Item(s):                       | Unit  | Limit | MDL  | Limit | MDL   | Limit  | MDL  |
|-------------------------------------|-------|-------|------|-------|-------|--------|------|
| Category Type                       |       | I     |      | II    |       | III    |      |
| Extractable Lead (Pb)               | mg/kg | 2.0   | 1.0  | 0.5   | 0.2   | 23     | 10   |
| Extractable Antimony (Sb)           | mg/kg | 45    | 5    | 11.3  | 1     | 560    | 10   |
| Extractable Arsenic (As)            | mg/kg | 3.8   | 0.2  | 0.9   | 0.1   | 47     | 5    |
| Extractable Barium (Ba)             | mg/kg | 1500  | 50   | 375   | 10    | 18750  | 50   |
| Extractable Cadmium (Cd)            | mg/kg | 1.3   | 0.1  | 0.3   | 0.05  | 17     | 1    |
| Extractable Mercury (Hg)            | mg/kg | 7.5   | 0.5  | 1.9   | 0.2   | 94     | 10   |
| Extractable Selenium (Se)           | mg/kg | 37.5  | 2    | 9.4   | 1     | 460    | 10   |
| Extractable Boron (B)               | mg/kg | 1200  | 50   | 300   | 10    | 15000  | 50   |
| Extractable Cobalt (Co)             | mg/kg | 10.5  | 1    | 2.6   | 0.2   | 130    | 10   |
| Extractable Manganese (Mn)          | mg/kg | 1200  | 50   | 300   | 10    | 15000  | 50   |
| Extractable Strontium (Sr)          | mg/kg | 4500  | 50   | 1125  | 50    | 56000  | 50   |
| Extractable Zinc (Zn)               | mg/kg | 3750  | 50   | 938   | 50    | 46000  | 50   |
| Extractable Copper (Cu)             | mg/kg | 622.5 | 10   | 156   | 10    | 7700   | 50   |
| Extractable Aluminum (Al)           | mg/kg | 2250  | 50   | 560   | 50    | 28130  | 50   |
| Extractable Nickel (Ni)             | mg/kg | 75    | 5    | 18.8  | 2     | 930    | 10   |
| Extractable Tin (Sn)                | mg/kg | 15000 | 50   | 3750  | 50    | 180000 | 50   |
| Extractable Organic Tin             | mg/kg | 0.9   | 0.2  | 0.2   | 0.2   | 12     | 0.2  |
| Extractable Chromium                | mg/kg | -     | 0.02 | -     | 0.005 | -      | 0.02 |
| Extractable Chromium (III) (Cr III) | mg/kg | 37.5  | 2    | 9.4   | 1     | 460    | 10   |
| Extractable Chromium (VI) (Cr VI)   | mg/kg | 0.02  | 0.02 | 0.005 | 0.005 | 0.053  | 0.02 |

Category I: dry, brittle, powder-like or pliable toy material

Category II: liquid or sticky toy material

Category III: scrapped-off toy material

“-” = Not Regulated

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Total Cadmium Content

Test Request: Total cadmium content as specified in Commission Regulation (EU) 2016/217 amending entry 23 of Annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method: EPA 3050B:1996, EPA 3052:1996, EN 1122:2001 Method B, acid digestion method was used and total cadmium content was determined by ICP-OES.

| Test Item(s) | Unit  | Limit | MDL | Result |
|--------------|-------|-------|-----|--------|
|              |       |       |     | 1      |
| Cadmium (Cd) | mg/kg | 1000  | 5   | ND     |

**Remark:**

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

### Total Cadmium Content

Test Request: Total cadmium content as specified in Commission Regulation (EU) 2016/217 amending entry 23 of Annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method: EPA 3050B:1996, EPA 3052:1996, EN 1122:2001 Method B, acid digestion method was used and total cadmium content was determined by ICP-OES.

| Test Item(s) | Unit  | Limit | MDL | Result |    |       |       |
|--------------|-------|-------|-----|--------|----|-------|-------|
|              |       |       |     | 2      | 3  | 4+5+6 | 7+8+9 |
| Cadmium (Cd) | mg/kg | 100   | 5   | ND     | ND | ND    | ND    |

| Test Item(s) | Unit  | Limit | MDL | Result |    |
|--------------|-------|-------|-----|--------|----|
|              |       |       |     | 10     | 11 |
| Cadmium (Cd) | mg/kg | 100   | 5   | ND     | ND |

| Test Item(s) | Unit  | Limit | MDL | Result   |          |          |          |
|--------------|-------|-------|-----|----------|----------|----------|----------|
|              |       |       |     | 12+13+14 | 15+16+17 | 18+19+20 | 21+22+23 |
| Cadmium (Cd) | mg/kg | 100   | 5   | ND       | ND       | ND       | ND       |

| Test Item(s) | Unit  | Limit | MDL | Result |
|--------------|-------|-------|-----|--------|
|              |       |       |     | 24+25  |
| Cadmium (Cd) | mg/kg | 100   | 5   | ND     |

**Remark:**

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Phthalates Content

Test Request: Phthalates content as specified in entry 51&52 of annex XVII of REACH Regulation (EC) No 1907/2006 and its amendment Commission Regulation (EU) 2018/2005.

Test Method: EPA 3550C:2007, EPA 8270E:2018, solvent extraction and quantification by GC-MS.

| Test Item(s)                  | CAS No.    | Unit | Limit | MDL   | Result |    |    |
|-------------------------------|------------|------|-------|-------|--------|----|----|
|                               |            |      |       |       | 1      | 2  | 3  |
| Di-n-butyl phthalate (DBP)    | 84-74-2    | %    | -     | 0.005 | ND     | ND | ND |
| Benzylbutyl phthalate (BBP)   | 85-68-7    | %    | -     | 0.005 | ND     | ND | ND |
| Diethylhexyl phthalate (DEHP) | 117-81-7   | %    | -     | 0.005 | ND     | ND | ND |
| Diisobutyl phthalate (DIBP)   | 84-69-5    | %    | -     | 0.005 | ND     | ND | ND |
| Sum of DEHP, DBP, BBP, DIBP   | -          | %    | 0.1   | -     | ND     | ND | ND |
| Di-n-octyl phthalate (DNOP)   | 117-84-0   | %    | -     | 0.005 | ND     | ND | ND |
| Diisononyl phthalate (DINP)   | 28553-12-0 | %    | -     | 0.005 | ND     | ND | ND |
| Diisodecyl phthalate (DIDP)   | 26761-40-0 | %    | -     | 0.005 | ND     | ND | ND |
| Sum of DNOP, DINP, DIDP       | -          | %    | 0.1   | -     | ND     | ND | ND |

| Test Item(s)                  | CAS No.    | Unit | Limit | MDL   | Result |    |    |
|-------------------------------|------------|------|-------|-------|--------|----|----|
|                               |            |      |       |       | 7+8+9  | 10 | 11 |
| Di-n-butyl phthalate (DBP)    | 84-74-2    | %    | -     | 0.005 | ND     | ND | ND |
| Benzylbutyl phthalate (BBP)   | 85-68-7    | %    | -     | 0.005 | ND     | ND | ND |
| Diethylhexyl phthalate (DEHP) | 117-81-7   | %    | -     | 0.005 | 0.007  | ND | ND |
| Diisobutyl phthalate (DIBP)   | 84-69-5    | %    | -     | 0.005 | ND     | ND | ND |
| Sum of DEHP, DBP, BBP, DIBP   | -          | %    | 0.1   | -     | 0.007  | ND | ND |
| Di-n-octyl phthalate (DNOP)   | 117-84-0   | %    | -     | 0.005 | ND     | ND | ND |
| Diisononyl phthalate (DINP)   | 28553-12-0 | %    | -     | 0.005 | ND     | ND | ND |
| Diisodecyl phthalate (DIDP)   | 26761-40-0 | %    | -     | 0.005 | ND     | ND | ND |
| Sum of DNOP, DINP, DIDP       | -          | %    | 0.1   | -     | ND     | ND | ND |

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

| Test Item(s)                  | CAS No.    | Unit | Limit | MDL   | Result   |          |          |
|-------------------------------|------------|------|-------|-------|----------|----------|----------|
|                               |            |      |       |       | 15+16+17 | 18+19+20 | 21+22+23 |
| Di-n-butyl phthalate (DBP)    | 84-74-2    | %    | -     | 0.005 | ND       | ND       | ND       |
| Benzylbutyl phthalate (BBP)   | 85-68-7    | %    | -     | 0.005 | ND       | ND       | ND       |
| Diethylhexyl phthalate (DEHP) | 117-81-7   | %    | -     | 0.005 | 0.017    | 0.010    | 0.012    |
| Diisobutyl phthalate (DIBP)   | 84-69-5    | %    | -     | 0.005 | ND       | ND       | ND       |
| Sum of DEHP, DBP, BBP, DIBP   | -          | %    | 0.1   | -     | 0.017    | 0.010    | 0.012    |
| Di-n-octyl phthalate (DNOP)   | 117-84-0   | %    | -     | 0.005 | ND       | ND       | ND       |
| Diisononyl phthalate (DINP)   | 28553-12-0 | %    | -     | 0.005 | ND       | ND       | ND       |
| Diisodecyl phthalate (DIDP)   | 26761-40-0 | %    | -     | 0.005 | ND       | ND       | ND       |
| Sum of DNOP, DINP, DIDP       | -          | %    | 0.1   | -     | ND       | ND       | ND       |

**Remarks:**

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

MDL = method detection limit

ND = Not detected, less than MDL

"-"= Not Regulated

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Banned AZO Dyes

Test Request: Banned AZO dyes as specified in entry 43 of annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method: EN ISO 14362-1:2017, sampling procedure and sample preparation according to Annex E4.2 and Annex E4.3.

| Test Item(s)                         | CAS No.  | Unit  | Limit | MDL | Result |    |    |       |
|--------------------------------------|----------|-------|-------|-----|--------|----|----|-------|
|                                      |          |       |       |     | 1      | 2  | 3  | 4+5+6 |
| 4-methyl-m-phenylenediamine          | 95-80-7  | mg/kg | 30    | 5   | ND     | ND | ND | ND    |
| 4-Amino-azobenzene (Note 2)          | 60-09-3  | mg/kg | 30    | 5   | ND     | ND | ND | ND    |
| 2-Naphthylamine                      | 91-59-8  | mg/kg | 30    | 5   | ND     | ND | ND | ND    |
| 4,4'-methylenedi-o-toluidine         | 838-88-0 | mg/kg | 30    | 5   | ND     | ND | ND | ND    |
| Bis-(4-aminophenyl)methane           | 101-77-9 | mg/kg | 30    | 5   | ND     | ND | ND | ND    |
| 4,4'-Oxydianiline                    | 101-80-4 | mg/kg | 30    | 5   | ND     | ND | ND | ND    |
| 4,4'-Thiodianiline                   | 139-65-1 | mg/kg | 30    | 5   | ND     | ND | ND | ND    |
| Benzidine                            | 92-87-5  | mg/kg | 30    | 5   | ND     | ND | ND | ND    |
| o-Toluidine                          | 95-53-4  | mg/kg | 30    | 5   | ND     | ND | ND | ND    |
| 5-Nitro-o-toluidine (Note 1)         | 99-55-8  | mg/kg | 30    | 5   | ND     | ND | ND | ND    |
| 4-methoxy-m-phenylenediamine         | 615-05-4 | mg/kg | 30    | 5   | ND     | ND | ND | ND    |
| 4,4'-Methylene-bis-(2-chloroaniline) | 101-14-4 | mg/kg | 30    | 5   | ND     | ND | ND | ND    |
| o-Aminoazotoluene (Note 1)           | 97-56-3  | mg/kg | 30    | 5   | ND     | ND | ND | ND    |
| 2,4,5-Trimethylaniline               | 137-17-7 | mg/kg | 30    | 5   | ND     | ND | ND | ND    |
| 4-Aminobiphenyl                      | 92-67-1  | mg/kg | 30    | 5   | ND     | ND | ND | ND    |
| o-Anisidine                          | 90-04-0  | mg/kg | 30    | 5   | ND     | ND | ND | ND    |
| 3,3'-Dichlorobenzidine               | 91-94-1  | mg/kg | 30    | 5   | ND     | ND | ND | ND    |
| 4-Chloroaniline                      | 106-47-8 | mg/kg | 30    | 5   | ND     | ND | ND | ND    |
| 3,3'-Dimethoxybenzidine              | 119-90-4 | mg/kg | 30    | 5   | ND     | ND | ND | ND    |
| n.d.3,3'-Dimethybenzidine            | 119-93-7 | mg/kg | 30    | 5   | ND     | ND | ND | ND    |
| 2-Methoxy-5-methylaniline            | 120-71-8 | mg/kg | 30    | 5   | ND     | ND | ND | ND    |
| 4-Chloro-2-methylaniline             | 95-69-2  | mg/kg | 30    | 5   | ND     | ND | ND | ND    |

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

| Test Item(s)                         | CAS No.  | Unit  | Limit | MDL | Result |    |    |
|--------------------------------------|----------|-------|-------|-----|--------|----|----|
|                                      |          |       |       |     | 7+8+9  | 10 | 11 |
| 4-methyl-m-phenylenediamine          | 95-80-7  | mg/kg | 30    | 5   | ND     | ND | ND |
| 4-Amino-azobenzene (Note 2)          | 60-09-3  | mg/kg | 30    | 5   | ND     | ND | ND |
| 2-Naphthylamine                      | 91-59-8  | mg/kg | 30    | 5   | ND     | ND | ND |
| 4,4'-methylenedi-o-toluidine         | 838-88-0 | mg/kg | 30    | 5   | ND     | ND | ND |
| Bis-(4-aminophenyl)methane           | 101-77-9 | mg/kg | 30    | 5   | ND     | ND | ND |
| 4,4'-Oxydianiline                    | 101-80-4 | mg/kg | 30    | 5   | ND     | ND | ND |
| 4,4'-Thiodianiline                   | 139-65-1 | mg/kg | 30    | 5   | ND     | ND | ND |
| Benzidine                            | 92-87-5  | mg/kg | 30    | 5   | ND     | ND | ND |
| o-Toluidine                          | 95-53-4  | mg/kg | 30    | 5   | ND     | ND | ND |
| 5-Nitro-o-toluidine (Note 1)         | 99-55-8  | mg/kg | 30    | 5   | ND     | ND | ND |
| 4-methoxy-m-phenylenediamine         | 615-05-4 | mg/kg | 30    | 5   | ND     | ND | ND |
| 4,4'-Methylene-bis-(2-chloroaniline) | 101-14-4 | mg/kg | 30    | 5   | ND     | ND | ND |
| o-Aminoazotoluene (Note 1)           | 97-56-3  | mg/kg | 30    | 5   | ND     | ND | ND |
| 2,4,5-Trimethylaniline               | 137-17-7 | mg/kg | 30    | 5   | ND     | ND | ND |
| 4-Aminobiphenyl                      | 92-67-1  | mg/kg | 30    | 5   | ND     | ND | ND |
| o-Anisidine                          | 90-04-0  | mg/kg | 30    | 5   | ND     | ND | ND |
| 3,3'-Dichlorobenzidine               | 91-94-1  | mg/kg | 30    | 5   | ND     | ND | ND |
| 4-Chloroaniline                      | 106-47-8 | mg/kg | 30    | 5   | ND     | ND | ND |
| 3,3'-Dimethoxybenzidine              | 119-90-4 | mg/kg | 30    | 5   | ND     | ND | ND |
| n.d.3,3'-Dimethybenzidine            | 119-93-7 | mg/kg | 30    | 5   | ND     | ND | ND |
| 2-Methoxy-5-methylaniline            | 120-71-8 | mg/kg | 30    | 5   | ND     | ND | ND |
| 4-Chloro-2-methylaniline             | 95-69-2  | mg/kg | 30    | 5   | ND     | ND | ND |

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

| Test Item(s)                         | CAS No.  | Unit  | Limit | MDL | Result   |          |          |          |
|--------------------------------------|----------|-------|-------|-----|----------|----------|----------|----------|
|                                      |          |       |       |     | 12+13+14 | 15+16+17 | 18+19+20 | 21+22+23 |
| 4-methyl-m-phenylenediamine          | 95-80-7  | mg/kg | 30    | 5   | ND       | ND       | ND       | ND       |
| 4-Amino-azobenzene (Note 2)          | 60-09-3  | mg/kg | 30    | 5   | ND       | ND       | ND       | ND       |
| 2-Naphthylamine                      | 91-59-8  | mg/kg | 30    | 5   | ND       | ND       | ND       | ND       |
| 4,4'-methylenedi-o-toluidine         | 838-88-0 | mg/kg | 30    | 5   | ND       | ND       | ND       | ND       |
| Bis-(4-aminophenyl)methane           | 101-77-9 | mg/kg | 30    | 5   | ND       | ND       | ND       | ND       |
| 4,4'-Oxydianiline                    | 101-80-4 | mg/kg | 30    | 5   | ND       | ND       | ND       | ND       |
| 4,4'-Thiodianiline                   | 139-65-1 | mg/kg | 30    | 5   | ND       | ND       | ND       | ND       |
| Benzidine                            | 92-87-5  | mg/kg | 30    | 5   | ND       | ND       | ND       | ND       |
| o-Toluidine                          | 95-53-4  | mg/kg | 30    | 5   | ND       | ND       | ND       | ND       |
| 5-Nitro-o-toluidine (Note 1)         | 99-55-8  | mg/kg | 30    | 5   | ND       | ND       | ND       | ND       |
| 4-methoxy-m-phenylenediamine         | 615-05-4 | mg/kg | 30    | 5   | ND       | ND       | ND       | ND       |
| 4,4'-Methylene-bis-(2-chloroaniline) | 101-14-4 | mg/kg | 30    | 5   | ND       | ND       | ND       | ND       |
| o-Aminoazotoluene (Note 1)           | 97-56-3  | mg/kg | 30    | 5   | ND       | ND       | ND       | ND       |
| 2,4,5-Trimethylaniline               | 137-17-7 | mg/kg | 30    | 5   | ND       | ND       | ND       | ND       |
| 4-Aminobiphenyl                      | 92-67-1  | mg/kg | 30    | 5   | ND       | ND       | ND       | ND       |
| o-Anisidine                          | 90-04-0  | mg/kg | 30    | 5   | ND       | ND       | ND       | ND       |
| 3,3'-Dichlorobenzidine               | 91-94-1  | mg/kg | 30    | 5   | ND       | ND       | ND       | ND       |
| 4-Chloroaniline                      | 106-47-8 | mg/kg | 30    | 5   | ND       | ND       | ND       | ND       |
| 3,3'-Dimethoxybenzidine              | 119-90-4 | mg/kg | 30    | 5   | ND       | ND       | ND       | ND       |
| n.d.3,3'-Dimethoxybenzidine          | 119-93-7 | mg/kg | 30    | 5   | ND       | ND       | ND       | ND       |
| 2-Methoxy-5-methylaniline            | 120-71-8 | mg/kg | 30    | 5   | ND       | ND       | ND       | ND       |
| 4-Chloro-2-methylaniline             | 95-69-2  | mg/kg | 30    | 5   | ND       | ND       | ND       | ND       |

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

| Test Item(s)                         | CAS No.  | Unit  | Limit | MDL | Result |
|--------------------------------------|----------|-------|-------|-----|--------|
|                                      |          |       |       |     | 24+25  |
| 4-methyl-m-phenylenediamine          | 95-80-7  | mg/kg | 30    | 5   | ND     |
| 4-Amino-azobenzene (Note 2)          | 60-09-3  | mg/kg | 30    | 5   | ND     |
| 2-Naphthylamine                      | 91-59-8  | mg/kg | 30    | 5   | ND     |
| 4,4'-methylenedi-o-toluidine         | 838-88-0 | mg/kg | 30    | 5   | ND     |
| Bis-(4-aminophenyl)methane           | 101-77-9 | mg/kg | 30    | 5   | ND     |
| 4,4'-Oxydianiline                    | 101-80-4 | mg/kg | 30    | 5   | ND     |
| 4,4'-Thiodianiline                   | 139-65-1 | mg/kg | 30    | 5   | ND     |
| Benzidine                            | 92-87-5  | mg/kg | 30    | 5   | ND     |
| o-Toluidine                          | 95-53-4  | mg/kg | 30    | 5   | ND     |
| 5-Nitro-o-toluidine (Note 1)         | 99-55-8  | mg/kg | 30    | 5   | ND     |
| 4-methoxy-m-phenylenediamine         | 615-05-4 | mg/kg | 30    | 5   | ND     |
| 4,4'-Methylene-bis-(2-chloroaniline) | 101-14-4 | mg/kg | 30    | 5   | ND     |
| o-Aminoazotoluene (Note 1)           | 97-56-3  | mg/kg | 30    | 5   | ND     |
| 2,4,5-Trimethylaniline               | 137-17-7 | mg/kg | 30    | 5   | ND     |
| 4-Aminobiphenyl                      | 92-67-1  | mg/kg | 30    | 5   | ND     |
| o-Anisidine                          | 90-04-0  | mg/kg | 30    | 5   | ND     |
| 3,3'-Dichlorobenzidine               | 91-94-1  | mg/kg | 30    | 5   | ND     |
| 4-Chloroaniline                      | 106-47-8 | mg/kg | 30    | 5   | ND     |
| 3,3'-Dimethoxybenzidine              | 119-90-4 | mg/kg | 30    | 5   | ND     |
| n.d.3,3'-Dimethoxybenzidine          | 119-93-7 | mg/kg | 30    | 5   | ND     |
| 2-Methoxy-5-methylaniline            | 120-71-8 | mg/kg | 30    | 5   | ND     |
| 4-Chloro-2-methylaniline             | 95-69-2  | mg/kg | 30    | 5   | ND     |

### Remarks:

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

Note 1: The CAS-numbers 97-56-3 and 99-55-8 are further reduced to CAS-numbers 95-53-4 and 95-80-7.

Note 2: 4-Amino-azobenzene(CAS No.:60-09-3) is reduced to aniline and 1,4-phenylenediamine.

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Polycyclic Aromatic Hydrocarbons (PAHs)

Test Request: Polycyclic Aromatic Hydrocarbons (PAHs) content as specified in entry 50 of Annex XVII of REACH Regulation (EC) No 1907/2006 and its latest amendment.

Test Method: Solvent extraction and quantification by gas chromatography-mass selective detection (GC-MS) with respect to AfPS GS 2019:01 PAK

| Test Item(s)           | CAS No.  | Unit  | Limit | MDL | Result |    |    |     |
|------------------------|----------|-------|-------|-----|--------|----|----|-----|
|                        |          |       |       |     | 1      | 2  | 3  | 4+5 |
| Benzo(a)anthracene     | 56-55-3  | mg/kg | 0.5   | 0.1 | ND     | ND | ND | ND  |
| Chrysene               | 218-01-9 | mg/kg | 0.5   | 0.1 | ND     | ND | ND | ND  |
| Benzo(b)fluoranthene   | 205-99-2 | mg/kg | 0.5   | 0.1 | ND     | ND | ND | ND  |
| Benzo(j)fluoranthene   | 205-82-3 | mg/kg | 0.5   | 0.1 | ND     | ND | ND | ND  |
| Benzo(k)fluoranthene   | 207-08-9 | mg/kg | 0.5   | 0.1 | ND     | ND | ND | ND  |
| Benzo(a)pyrene         | 50-32-8  | mg/kg | 0.5   | 0.1 | ND     | ND | ND | ND  |
| Dibenzo(a,h)anthracene | 53-70-3  | mg/kg | 0.5   | 0.1 | ND     | ND | ND | ND  |
| Benzo(e)pyrene         | 192-97-2 | mg/kg | 0.5   | 0.1 | ND     | ND | ND | ND  |

| Test Item(s)           | CAS No.  | Unit  | Limit | MDL | Result |     |    |    |
|------------------------|----------|-------|-------|-----|--------|-----|----|----|
|                        |          |       |       |     | 6+7    | 8+9 | 10 | 11 |
| Benzo(a)anthracene     | 56-55-3  | mg/kg | 0.5   | 0.1 | ND     | ND  | ND | ND |
| Chrysene               | 218-01-9 | mg/kg | 0.5   | 0.1 | ND     | ND  | ND | ND |
| Benzo(b)fluoranthene   | 205-99-2 | mg/kg | 0.5   | 0.1 | ND     | ND  | ND | ND |
| Benzo(j)fluoranthene   | 205-82-3 | mg/kg | 0.5   | 0.1 | ND     | ND  | ND | ND |
| Benzo(k)fluoranthene   | 207-08-9 | mg/kg | 0.5   | 0.1 | ND     | ND  | ND | ND |
| Benzo(a)pyrene         | 50-32-8  | mg/kg | 0.5   | 0.1 | ND     | ND  | ND | ND |
| Dibenzo(a,h)anthracene | 53-70-3  | mg/kg | 0.5   | 0.1 | ND     | ND  | ND | ND |
| Benzo(e)pyrene         | 192-97-2 | mg/kg | 0.5   | 0.1 | ND     | ND  | ND | ND |

| Test Item(s)           | CAS No.  | Unit  | Limit | MDL | Result |       |       |       |
|------------------------|----------|-------|-------|-----|--------|-------|-------|-------|
|                        |          |       |       |     | 12+13  | 14+15 | 16+17 | 18+19 |
| Benzo(a)anthracene     | 56-55-3  | mg/kg | 0.5   | 0.1 | ND     | ND    | ND    | ND    |
| Chrysene               | 218-01-9 | mg/kg | 0.5   | 0.1 | ND     | ND    | ND    | ND    |
| Benzo(b)fluoranthene   | 205-99-2 | mg/kg | 0.5   | 0.1 | ND     | ND    | ND    | ND    |
| Benzo(j)fluoranthene   | 205-82-3 | mg/kg | 0.5   | 0.1 | ND     | ND    | ND    | ND    |
| Benzo(k)fluoranthene   | 207-08-9 | mg/kg | 0.5   | 0.1 | ND     | ND    | ND    | ND    |
| Benzo(a)pyrene         | 50-32-8  | mg/kg | 0.5   | 0.1 | ND     | ND    | ND    | ND    |
| Dibenzo(a,h)anthracene | 53-70-3  | mg/kg | 0.5   | 0.1 | ND     | ND    | ND    | ND    |
| Benzo(e)pyrene         | 192-97-2 | mg/kg | 0.5   | 0.1 | ND     | ND    | ND    | ND    |

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

| Test Item(s)           | CAS No.  | Unit  | Limit | MDL | Result |       |       |
|------------------------|----------|-------|-------|-----|--------|-------|-------|
|                        |          |       |       |     | 20+21  | 22+23 | 24+25 |
| Benzo(a)anthracene     | 56-55-3  | mg/kg | 0.5   | 0.1 | ND     | ND    | ND    |
| Chrysene               | 218-01-9 | mg/kg | 0.5   | 0.1 | ND     | ND    | ND    |
| Benzo(b)fluoranthene   | 205-99-2 | mg/kg | 0.5   | 0.1 | ND     | ND    | ND    |
| Benzo(j)fluoranthene   | 205-82-3 | mg/kg | 0.5   | 0.1 | ND     | ND    | ND    |
| Benzo(k)fluoranthene   | 207-08-9 | mg/kg | 0.5   | 0.1 | ND     | ND    | ND    |
| Benzo(a)pyrene         | 50-32-8  | mg/kg | 0.5   | 0.1 | ND     | ND    | ND    |
| Dibenzo(a,h)anthracene | 53-70-3  | mg/kg | 0.5   | 0.1 | ND     | ND    | ND    |
| Benzo(e)pyrene         | 192-97-2 | mg/kg | 0.5   | 0.1 | ND     | ND    | ND    |

**Remarks:**

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Polycyclic Aromatic Hydrocarbons (PAHs)

Test Request: Polycyclic Aromatic Hydrocarbons (PAHs) content according to German GS Specification: AfPS GS 2019:01 PAK

Test Method: Solvent extraction and quantification by gas chromatography-mass selective detection (GC-MS) with respect to AfPS GS 2019:01 PAK

| Parameter                                             | CAS No.  | Unit  | Result     |            |            |            |            |
|-------------------------------------------------------|----------|-------|------------|------------|------------|------------|------------|
|                                                       |          |       | 1          | 2          | 3          | 4+5        | 6+7        |
| PAHs Category                                         |          |       | Category 1 | Category 1 | Category 1 | Category 1 | Category 1 |
| Benzo(a)pyrene                                        | 50-32-8  | mg/kg | ND         | ND         | ND         | ND         | ND         |
| Benzo(e)pyrene                                        | 192-97-2 | mg/kg | ND         | ND         | ND         | ND         | ND         |
| Benzo(a)anthracene                                    | 56-55-3  | mg/kg | ND         | ND         | ND         | ND         | ND         |
| Benzo(b)fluoranthene                                  | 205-99-2 | mg/kg | ND         | ND         | ND         | ND         | ND         |
| Benzo(j)fluoranthene                                  | 205-82-3 | mg/kg | ND         | ND         | ND         | ND         | ND         |
| Benzo(k)fluoranthene                                  | 207-08-9 | mg/kg | ND         | ND         | ND         | ND         | ND         |
| Chrysene                                              | 218-01-9 | mg/kg | ND         | ND         | ND         | ND         | ND         |
| Dibenzo(a,h)anthracene                                | 53-70-3  | mg/kg | ND         | ND         | ND         | ND         | ND         |
| Benzo(ghi)perylene                                    | 191-24-2 | mg/kg | ND         | ND         | ND         | ND         | ND         |
| Indeno(1,2,3-cd)pyrene                                | 193-39-5 | mg/kg | ND         | ND         | ND         | ND         | ND         |
| Phenanthrene                                          | 85-01-8  | mg/kg | ND         | ND         | ND         | ND         | ND         |
| Anthracene                                            | 120-12-7 | mg/kg | ND         | ND         | ND         | ND         | ND         |
| Fluoranthene                                          | 206-44-0 | mg/kg | ND         | ND         | ND         | ND         | ND         |
| Pyrene                                                | 129-00-0 | mg/kg | ND         | ND         | ND         | ND         | ND         |
| Sum of Phenanthrene, Pyrene, Anthracene, Fluoranthene | -        | mg/kg | ND         | ND         | ND         | ND         | ND         |
| Naphthalene                                           | 91-20-3  | mg/kg | ND         | ND         | ND         | ND         | ND         |
| Sum 15 PAHs                                           | -        | mg/kg | ND         | ND         | ND         | ND         | ND         |

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

| Parameter                                             | CAS No.  | Unit  | Result     |            |            |
|-------------------------------------------------------|----------|-------|------------|------------|------------|
|                                                       |          |       | 8+9        | 10         | 11         |
| PAHs Category                                         |          |       | Category 1 | Category 1 | Category 1 |
| Benzo(a)pyrene                                        | 50-32-8  | mg/kg | ND         | ND         | ND         |
| Benzo(e)pyrene                                        | 192-97-2 | mg/kg | ND         | ND         | ND         |
| Benzo(a)anthracene                                    | 56-55-3  | mg/kg | ND         | ND         | ND         |
| Benzo(b)fluoranthene                                  | 205-99-2 | mg/kg | ND         | ND         | ND         |
| Benzo(j)fluoranthene                                  | 205-82-3 | mg/kg | ND         | ND         | ND         |
| Benzo(k)fluoranthene                                  | 207-08-9 | mg/kg | ND         | ND         | ND         |
| Chrysene                                              | 218-01-9 | mg/kg | ND         | ND         | ND         |
| Dibenzo(a,h)anthracene                                | 53-70-3  | mg/kg | ND         | ND         | ND         |
| Benzo(ghi)perylene                                    | 191-24-2 | mg/kg | ND         | ND         | ND         |
| Indeno(1,2,3-cd)pyrene                                | 193-39-5 | mg/kg | ND         | ND         | ND         |
| Phenanthrene                                          | 85-01-8  | mg/kg | ND         | ND         | ND         |
| Anthracene                                            | 120-12-7 | mg/kg | ND         | ND         | ND         |
| Fluoranthene                                          | 206-44-0 | mg/kg | ND         | ND         | ND         |
| Pyrene                                                | 129-00-0 | mg/kg | ND         | ND         | ND         |
| Sum of Phenanthrene, Pyrene, Anthracene, Fluoranthene | -        | mg/kg | ND         | ND         | ND         |
| Naphthalene                                           | 91-20-3  | mg/kg | ND         | ND         | ND         |
| Sum 15 PAHs                                           | -        | mg/kg | ND         | ND         | ND         |

| Parameter                                             | CAS No.  | Unit  | Result     |            |            |            |            |
|-------------------------------------------------------|----------|-------|------------|------------|------------|------------|------------|
|                                                       |          |       | 12+13      | 14+15      | 16+17      | 18+19      | 20+21      |
| PAHs Category                                         |          |       | Category 1 | Category 1 | Category 1 | Category 1 | Category 1 |
| Benzo(a)pyrene                                        | 50-32-8  | mg/kg | ND         | ND         | ND         | ND         | ND         |
| Benzo(e)pyrene                                        | 192-97-2 | mg/kg | ND         | ND         | ND         | ND         | ND         |
| Benzo(a)anthracene                                    | 56-55-3  | mg/kg | ND         | ND         | ND         | ND         | ND         |
| Benzo(b)fluoranthene                                  | 205-99-2 | mg/kg | ND         | ND         | ND         | ND         | ND         |
| Benzo(j)fluoranthene                                  | 205-82-3 | mg/kg | ND         | ND         | ND         | ND         | ND         |
| Benzo(k)fluoranthene                                  | 207-08-9 | mg/kg | ND         | ND         | ND         | ND         | ND         |
| Chrysene                                              | 218-01-9 | mg/kg | ND         | ND         | ND         | ND         | ND         |
| Dibenzo(a,h)anthracene                                | 53-70-3  | mg/kg | ND         | ND         | ND         | ND         | ND         |
| Benzo(ghi)perylene                                    | 191-24-2 | mg/kg | ND         | ND         | ND         | ND         | ND         |
| Indeno(1,2,3-cd)pyrene                                | 193-39-5 | mg/kg | ND         | ND         | ND         | ND         | ND         |
| Phenanthrene                                          | 85-01-8  | mg/kg | ND         | ND         | ND         | ND         | ND         |
| Anthracene                                            | 120-12-7 | mg/kg | ND         | ND         | ND         | ND         | ND         |
| Fluoranthene                                          | 206-44-0 | mg/kg | ND         | ND         | ND         | ND         | ND         |
| Pyrene                                                | 129-00-0 | mg/kg | ND         | ND         | ND         | ND         | ND         |
| Sum of Phenanthrene, Pyrene, Anthracene, Fluoranthene | -        | mg/kg | ND         | ND         | ND         | ND         | ND         |
| Naphthalene                                           | 91-20-3  | mg/kg | ND         | ND         | ND         | ND         | ND         |
| Sum 15 PAHs                                           | -        | mg/kg | ND         | ND         | ND         | ND         | ND         |

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

| Parameter                                             | CAS No.  | Unit  | Result     |            |
|-------------------------------------------------------|----------|-------|------------|------------|
|                                                       |          |       | 22+23      | 24+25      |
| PAHs Category                                         |          |       | Category 1 | Category 1 |
| Benzo(a)pyrene                                        | 50-32-8  | mg/kg | ND         | ND         |
| Benzo(e)pyrene                                        | 192-97-2 | mg/kg | ND         | ND         |
| Benzo(a)anthracene                                    | 56-55-3  | mg/kg | ND         | ND         |
| Benzo(b)fluoranthene                                  | 205-99-2 | mg/kg | ND         | ND         |
| Benzo(j)fluoranthene                                  | 205-82-3 | mg/kg | ND         | ND         |
| Benzo(k)fluoranthene                                  | 207-08-9 | mg/kg | ND         | ND         |
| Chrysene                                              | 218-01-9 | mg/kg | ND         | ND         |
| Dibenzo(a,h)anthracene                                | 53-70-3  | mg/kg | ND         | ND         |
| Benzo(ghi)perylene                                    | 191-24-2 | mg/kg | ND         | ND         |
| Indeno(1,2,3-cd)pyrene                                | 193-39-5 | mg/kg | ND         | ND         |
| Phenanthrene                                          | 85-01-8  | mg/kg | ND         | ND         |
| Anthracene                                            | 120-12-7 | mg/kg | ND         | ND         |
| Fluoranthene                                          | 206-44-0 | mg/kg | ND         | ND         |
| Pyrene                                                | 129-00-0 | mg/kg | ND         | ND         |
| Sum of Phenanthrene, Pyrene, Anthracene, Fluoranthene | -        | mg/kg | ND         | ND         |
| Naphthalene                                           | 91-20-3  | mg/kg | ND         | ND         |
| Sum 15 PAHs                                           | -        | mg/kg | ND         | ND         |

**Note:**

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

mg/kg = milligram per kilogram

ND = not detected, less than 0.1 mg/kg

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

**Table 1**

AfPS GS 2019:01 PAK requirement:

| Parameter                                      | Unit  | Category 1<br>Materials intended to be taken into the mouth, or materials in toys acc. to DIR 2009/48/EC or materials in articles intended for the use by children up to 3 years of age having long-term skin contact (more than 30s) within intended use | Category 2<br>Materials that do not fall into category 1, with long-term skin contact (more than 30s) or repeated short-term skin contact within intended or foreseeable use |                            | Category 3<br>Materials that do neither fall into category 1 nor 2, with short-term skin contact (up to 30s) within intended or foreseeable use |                            |
|------------------------------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
|                                                |       |                                                                                                                                                                                                                                                           | a. use by children                                                                                                                                                           | b. other consumer products | a. use by children                                                                                                                              | b. other consumer products |
| Benzo(a)pyrene                                 | mg/kg | <0.2                                                                                                                                                                                                                                                      | <0.2                                                                                                                                                                         | <0.5                       | <0.5                                                                                                                                            | <1                         |
| Benzo(e)pyrene                                 | mg/kg | <0.2                                                                                                                                                                                                                                                      | <0.2                                                                                                                                                                         | <0.5                       | <0.5                                                                                                                                            | <1                         |
| Benzo(a)anthracene                             | mg/kg | <0.2                                                                                                                                                                                                                                                      | <0.2                                                                                                                                                                         | <0.5                       | <0.5                                                                                                                                            | <1                         |
| Benzo(b)fluoranthene                           | mg/kg | <0.2                                                                                                                                                                                                                                                      | <0.2                                                                                                                                                                         | <0.5                       | <0.5                                                                                                                                            | <1                         |
| Benzo(j)fluoranthene                           | mg/kg | <0.2                                                                                                                                                                                                                                                      | <0.2                                                                                                                                                                         | <0.5                       | <0.5                                                                                                                                            | <1                         |
| Benzo(k)fluoranthene                           | mg/kg | <0.2                                                                                                                                                                                                                                                      | <0.2                                                                                                                                                                         | <0.5                       | <0.5                                                                                                                                            | <1                         |
| Chrysene                                       | mg/kg | <0.2                                                                                                                                                                                                                                                      | <0.2                                                                                                                                                                         | <0.5                       | <0.5                                                                                                                                            | <1                         |
| Dibenzo(a,h)anthracene                         | mg/kg | <0.2                                                                                                                                                                                                                                                      | <0.2                                                                                                                                                                         | <0.5                       | <0.5                                                                                                                                            | <1                         |
| Benzo(ghi)perylene                             | mg/kg | <0.2                                                                                                                                                                                                                                                      | <0.2                                                                                                                                                                         | <0.5                       | <0.5                                                                                                                                            | <1                         |
| Indeno(1,2,3-cd)pyrene                         | mg/kg | <0.2                                                                                                                                                                                                                                                      | <0.2                                                                                                                                                                         | <0.5                       | <0.5                                                                                                                                            | <1                         |
| Phenanthrene, Pyrene, Anthracene, Fluoranthene | mg/kg | <1<br>Sum                                                                                                                                                                                                                                                 | <5<br>Sum                                                                                                                                                                    | <10<br>Sum                 | <20<br>Sum                                                                                                                                      | <50<br>Sum                 |
| Naphthalene                                    | mg/kg | <1                                                                                                                                                                                                                                                        | <2                                                                                                                                                                           |                            | <10                                                                                                                                             |                            |
| Sum 15 PAH                                     | mg/kg | <1                                                                                                                                                                                                                                                        | <5                                                                                                                                                                           | <10                        | <20                                                                                                                                             | <50                        |

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Mechanical and Physical Properties

Test Request: As specified in the mechanical hazards requirements of the tested sections of Canada Consumer Product Safety Act, Toys Regulations, SOR/2011-17 amended by SOR/2018-138 and Schedule 2.

| Section | Description                                      | Result |
|---------|--------------------------------------------------|--------|
|         | Packaging                                        |        |
| 4       | Flexible film bag                                | N/A    |
|         | Mechanical Hazards                               |        |
| 7       | Small parts                                      | N/A    |
| 8       | Metal edges                                      | P      |
| 9       | Wire frames                                      | N/A    |
| 10      | Plastic edges                                    | P      |
| 11      | Wood                                             | N/A    |
| 12      | Glass                                            | N/A    |
| 13      | Fasteners                                        | N/A    |
| 14      | Safety stops or locking devices                  | N/A    |
| 15      | Spring-wound driving mechanisms                  | N/A    |
| 16      | Projectile components                            | N/A    |
| 17      | Enclosures                                       | N/A    |
| 18      | Stability                                        | N/A    |
|         | Auditory Hazards                                 |        |
| 19      | Decibel limit                                    | N/A    |
|         | Thermal and Flammability Hazards                 |        |
| 20      | Heated surfaces, parts or substances             | N/A    |
|         | Specific Products                                |        |
| 28      | Dolls, plush toys and soft toys - fastenings     | N/A    |
| 29      | Dolls, plush toys and soft toys - stuffing       | N/A    |
| 30      | Dolls, plush toys and soft toys - small parts    | N/A    |
| 31      | Dolls, plush toys and soft toys - eyes and noses | N/A    |
| 35      | Plant seeds - noise                              | N/A    |
| 36      | Plant seeds - stuffing material                  | N/A    |
| 37      | Pull and push toys - shaft-like handles          | N/A    |
| 38      | Toys steam engines - boilers - safety valves     | N/A    |
| 39      | Finger paints - water-based paints               | N/A    |
| 40      | Rattles - construction                           | N/A    |
| 41      | Elastics - length or extensibility               | N/A    |
| 42      | Yo-Yo type balls - stretchable cord              | N/A    |
| 43      | Magnetic Toys - Magnetic Force                   | N/A    |
| 44      | Magnetic Toys - Exceptions                       | N/A    |
|         | Canada Consumer Product Safety Act, Schedule 2   |        |
| 1       | Jequirity Beans                                  | P      |
| 8       | Kites                                            | N/A    |
| 9       | Kite strings                                     | N/A    |
| 14      | Lawn, darts with elongated tips                  | N/A    |

### Remark:

P - Pass, F - Fail, N/A - Not Applicable, N/C - Not Conduct as per client's request

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Flammability of Toys

Test Request: As specified in the flammability requirements of the tested sections of Canada Consumer Product Safety Act, Toys Regulations, SOR/2011-17 amended by SOR/2018-138.

| Section | Description                                                    | Result |
|---------|----------------------------------------------------------------|--------|
| 21      | Flammability of celluloid or cellulose nitrate                 | P      |
| 32      | Flammability of outer covering on doll, plush toy and soft toy | N/A    |
| 33      | Flammability of yarn on doll, plush toy and soft toy           | N/A    |
| 34      | Flammability of hair or mane on doll, plush toy and soft toy   | N/A    |

### Remark:

P - Pass, F - Fail, N/A - Not Applicable, N/C - Not Conduct as per client's request

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Phthalate Regulations

Test Request: Phthalates Content as specified in Canada Consumer Product Safety Act - Phthalate Regulations, SOR/2016-188.

Test Method: With reference to Product Safety Laboratory, Reference Manual, Book 5 - Laboratory Policies and Procedures, Part B: Test Methods Section, Method C34.2-2018, analysis is performed by GC-MS.

| Test Item(s)                       | CAS No.    | Unit | Limit | MDL    | Result |    |    |
|------------------------------------|------------|------|-------|--------|--------|----|----|
|                                    |            |      |       |        | 1      | 2  | 3  |
| Bis(2-ethylhexyl) phthalate (DEHP) | 117-81-7   | %    | 0.1   | 0.0050 | ND     | ND | ND |
| Di-n-butyl phthalate (DBP)         | 84-74-2    | %    | 0.1   | 0.0050 | ND     | ND | ND |
| Benzyl butyl phthalate (BBP)       | 85-68-7    | %    | 0.1   | 0.0050 | ND     | ND | ND |
| Diisononyl phthalate (DINP)        | 28553-12-0 | %    | 0.1   | 0.0050 | ND     | ND | ND |
| Diisodecyl phthalate (DIDP)        | 26761-40-0 | %    | 0.1   | 0.0050 | ND     | ND | ND |
| Di-n-octyl phthalate (DNOP)        | 117-84-0   | %    | 0.1   | 0.0050 | ND     | ND | ND |

| Test Item(s)                       | CAS No.    | Unit | Limit | MDL    | Result |    |    |
|------------------------------------|------------|------|-------|--------|--------|----|----|
|                                    |            |      |       |        | 7+8+9  | 10 | 11 |
| Bis(2-ethylhexyl) phthalate (DEHP) | 117-81-7   | %    | 0.1   | 0.0050 | 0.007  | ND | ND |
| Di-n-butyl phthalate (DBP)         | 84-74-2    | %    | 0.1   | 0.0050 | ND     | ND | ND |
| Benzyl butyl phthalate (BBP)       | 85-68-7    | %    | 0.1   | 0.0050 | ND     | ND | ND |
| Diisononyl phthalate (DINP)        | 28553-12-0 | %    | 0.1   | 0.0050 | ND     | ND | ND |
| Diisodecyl phthalate (DIDP)        | 26761-40-0 | %    | 0.1   | 0.0050 | ND     | ND | ND |
| Di-n-octyl phthalate (DNOP)        | 117-84-0   | %    | 0.1   | 0.0050 | ND     | ND | ND |

| Test Item(s)                       | CAS No.    | Unit | Limit | MDL    | Result   |          |          |
|------------------------------------|------------|------|-------|--------|----------|----------|----------|
|                                    |            |      |       |        | 15+16+17 | 18+19+20 | 21+22+23 |
| Bis(2-ethylhexyl) phthalate (DEHP) | 117-81-7   | %    | 0.1   | 0.0050 | 0.017    | 0.010    | 0.012    |
| Di-n-butyl phthalate (DBP)         | 84-74-2    | %    | 0.1   | 0.0050 | ND       | ND       | ND       |
| Benzyl butyl phthalate (BBP)       | 85-68-7    | %    | 0.1   | 0.0050 | ND       | ND       | ND       |
| Diisononyl phthalate (DINP)        | 28553-12-0 | %    | 0.1   | 0.0050 | ND       | ND       | ND       |
| Diisodecyl phthalate (DIDP)        | 26761-40-0 | %    | 0.1   | 0.0050 | ND       | ND       | ND       |
| Di-n-octyl phthalate (DNOP)        | 117-84-0   | %    | 0.1   | 0.0050 | ND       | ND       | ND       |

### Remarks:

According to client's request, tests are combination tests. The experimental results are the total result of mixed samples.

MDL = method detection limit

ND = Not detected, less than MDL

DEHP, DBP and BBP are restricted for the vinyl in a toy or child care article.

DINP, DIDP and DNOP are restricted for the vinyl in any part of a toy or child care article that can, in a reasonably foreseeable manner, be placed in the mouth of a child under four years of age.

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Heavy Metals in Plastic Materials

Test Request: Heavy Metals Content in Plastic Materials as specified in Canada Consumer Product Safety Act - Toys Regulations, SOR/2011-17 amended by SOR/2018-138, Section 27(b)

Test Method: With reference to Product Safety Laboratory, Reference Manual, Book 5 - Laboratory Policies and Procedures, Part B: Test Methods Section, Method C02.3.2-2021, Method C07-2017 modified, Method C03-2022

| Test Item(s)     | Unit  | Limit    | MDL | Result |    |    |    |
|------------------|-------|----------|-----|--------|----|----|----|
|                  |       |          |     | 2      | 3  | 4  | 5  |
| Total Lead       | mg/kg | 90       | 10  | ND     | ND | ND | ND |
| Total Mercury    | mg/kg | See Note | 1   | ND     | ND | ND | ND |
| Soluble Arsenic  | mg/kg | 1000     | 2.5 | ND     | ND | ND | ND |
| Soluble Barium   | mg/kg | 1000     | 10  | ND     | ND | 23 | 20 |
| Soluble Antimony | mg/kg | 1000     | 5   | ND     | ND | ND | ND |
| Soluble Cadmium  | mg/kg | 1000     | 5   | ND     | ND | ND | ND |
| Soluble Selenium | mg/kg | 1000     | 10  | ND     | ND | ND | ND |

| Test Item(s)     | Unit  | Limit    | MDL | Result |    |    |    |
|------------------|-------|----------|-----|--------|----|----|----|
|                  |       |          |     | 6      | 7  | 8  | 9  |
| Total Lead       | mg/kg | 90       | 10  | ND     | ND | ND | ND |
| Total Mercury    | mg/kg | See Note | 1   | ND     | ND | ND | ND |
| Soluble Arsenic  | mg/kg | 1000     | 2.5 | ND     | ND | ND | ND |
| Soluble Barium   | mg/kg | 1000     | 10  | 14     | ND | 23 | 23 |
| Soluble Antimony | mg/kg | 1000     | 5   | ND     | ND | ND | ND |
| Soluble Cadmium  | mg/kg | 1000     | 5   | ND     | ND | ND | ND |
| Soluble Selenium | mg/kg | 1000     | 10  | ND     | ND | ND | ND |

| Test Item(s)     | Unit  | Limit    | MDL | Result |  |  |  |
|------------------|-------|----------|-----|--------|--|--|--|
|                  |       |          |     | 10     |  |  |  |
| Total Lead       | mg/kg | 90       | 10  | ND     |  |  |  |
| Total Mercury    | mg/kg | See Note | 1   | ND     |  |  |  |
| Soluble Arsenic  | mg/kg | 1000     | 2.5 | ND     |  |  |  |
| Soluble Barium   | mg/kg | 1000     | 10  | ND     |  |  |  |
| Soluble Antimony | mg/kg | 1000     | 5   | ND     |  |  |  |
| Soluble Cadmium  | mg/kg | 1000     | 5   | ND     |  |  |  |
| Soluble Selenium | mg/kg | 1000     | 10  | ND     |  |  |  |

| Test Item(s)     | Unit  | Limit    | MDL | Result |    |    |    |
|------------------|-------|----------|-----|--------|----|----|----|
|                  |       |          |     | 12     | 13 | 14 | 15 |
| Total Lead       | mg/kg | 90       | 10  | ND     | ND | ND | ND |
| Total Mercury    | mg/kg | See Note | 1   | ND     | ND | ND | ND |
| Soluble Arsenic  | mg/kg | 1000     | 2.5 | ND     | ND | ND | ND |
| Soluble Barium   | mg/kg | 1000     | 10  | ND     | ND | ND | 18 |
| Soluble Antimony | mg/kg | 1000     | 5   | ND     | ND | ND | ND |
| Soluble Cadmium  | mg/kg | 1000     | 5   | ND     | ND | ND | ND |
| Soluble Selenium | mg/kg | 1000     | 10  | ND     | ND | ND | ND |

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

| Test Item(s)     | Unit  | Limit    | MDL | Result |    |    |    |
|------------------|-------|----------|-----|--------|----|----|----|
|                  |       |          |     | 16     | 17 | 18 | 19 |
| Total Lead       | mg/kg | 90       | 10  | ND     | ND | ND | ND |
| Total Mercury    | mg/kg | See Note | 1   | ND     | ND | ND | ND |
| Soluble Arsenic  | mg/kg | 1000     | 2.5 | ND     | ND | ND | ND |
| Soluble Barium   | mg/kg | 1000     | 10  | ND     | ND | ND | ND |
| Soluble Antimony | mg/kg | 1000     | 5   | ND     | ND | ND | ND |
| Soluble Cadmium  | mg/kg | 1000     | 5   | ND     | ND | ND | ND |
| Soluble Selenium | mg/kg | 1000     | 10  | ND     | ND | ND | ND |

| Test Item(s)     | Unit  | Limit    | MDL | Result |    |    |    |
|------------------|-------|----------|-----|--------|----|----|----|
|                  |       |          |     | 20     | 21 | 22 | 23 |
| Total Lead       | mg/kg | 90       | 10  | ND     | ND | ND | ND |
| Total Mercury    | mg/kg | See Note | 1   | ND     | ND | ND | ND |
| Soluble Arsenic  | mg/kg | 1000     | 2.5 | ND     | ND | ND | ND |
| Soluble Barium   | mg/kg | 1000     | 10  | ND     | ND | ND | ND |
| Soluble Antimony | mg/kg | 1000     | 5   | ND     | ND | ND | ND |
| Soluble Cadmium  | mg/kg | 1000     | 5   | ND     | ND | ND | ND |
| Soluble Selenium | mg/kg | 1000     | 10  | ND     | ND | ND | ND |

| Test Item(s)     | Unit  | Limit    | MDL | Result |    |
|------------------|-------|----------|-----|--------|----|
|                  |       |          |     | 24     | 25 |
| Total Lead       | mg/kg | 90       | 10  | ND     | ND |
| Total Mercury    | mg/kg | See Note | 1   | ND     | ND |
| Soluble Arsenic  | mg/kg | 1000     | 2.5 | ND     | ND |
| Soluble Barium   | mg/kg | 1000     | 10  | ND     | ND |
| Soluble Antimony | mg/kg | 1000     | 5   | ND     | ND |
| Soluble Cadmium  | mg/kg | 1000     | 5   | ND     | ND |
| Soluble Selenium | mg/kg | 1000     | 10  | ND     | ND |

**Remark:**

Note: Any compound of mercury introduced as such.

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Heavy Metals in Surface Coating

Test Request: Heavy Metals Content in Surface Coating as specified in Canada Consumer Product Safety Act - Toys Regulations, SOR/2011-17 amended by SOR/2018-138, Section 23

Test Method: With reference to Product Safety Laboratory, Reference Manual, Book 5 - Laboratory Policies and Procedures, Part B: Test Methods Section, Method C02.2.2-2020, Method C07-2017 modified, Method C03-2022

| Test Item(s)     | Unit  | Limit    | MDL | Result |
|------------------|-------|----------|-----|--------|
|                  |       |          |     | 1      |
| Total Lead       | mg/kg | 90       | 10  | ND     |
| Total Mercury    | mg/kg | See Note | 1   | ND     |
| Soluble Arsenic  | mg/kg | 1000     | 2.5 | ND     |
| Soluble Barium   | mg/kg | 1000     | 10  | ND     |
| Soluble Antimony | mg/kg | 1000     | 5   | ND     |
| Soluble Cadmium  | mg/kg | 1000     | 5   | ND     |
| Soluble Selenium | mg/kg | 1000     | 10  | ND     |

**Remark:**

Note: Any compound of mercury introduced as such.

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

### Surface Coating Materials Regulations

Test Request: Total lead and mercury in surface coatings as specified in Canada Consumer Product Safety Act, Surface Coating Materials Regulations, SOR/2016-193.

Test Method: With reference to Product Safety Laboratory, Reference Manual, Book 5 - Laboratory Policies and Procedures, Part B: Test Methods Section, Method C02.2.1-2018, Method C07.

| Test Item(s)  | Unit  | Limit | MDL | Result |
|---------------|-------|-------|-----|--------|
|               |       |       |     | 1      |
| Lead (Pb)     | mg/kg | 90    | 10  | ND     |
| Total Mercury | mg/kg | 10    | 1   | ND     |

**Remark:**

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Physical and Mechanical Hazards (C/D/E/F/G/H/I/J/K)

Test Request: As specified in British Standard on Safety of Toys BS EN 71-1:2014+A1:2018

| Section  | Description                                                                          | Result |
|----------|--------------------------------------------------------------------------------------|--------|
| 4        | General requirements                                                                 |        |
| 4.1      | Material cleanliness (by visual assessment)                                          | P      |
| 4.2      | Assembly                                                                             | N/A    |
| 4.3      | Flexible plastic sheeting                                                            | N/A    |
| 4.4      | Toy Bags                                                                             | N/A    |
| 4.5      | Glass                                                                                | N/A    |
| 4.6      | Expanding Materials                                                                  | N/A    |
| 4.7      | Edges                                                                                | P      |
| 4.8      | Points and Metallic Wires                                                            | P      |
| 4.9      | Protruding parts                                                                     | N/A    |
| 4.10     | Parts moving against each other                                                      |        |
| 4.10.1   | Folding and sliding mechanisms                                                       | N/A    |
| 4.10.2   | Driving mechanisms.                                                                  | N/A    |
| 4.10.3   | Hinges                                                                               | N/A    |
| 4.10.4   | Springs                                                                              | N/A    |
| 4.11     | Mouth-actuated toys and other toys intended to be put in the mouth                   | N/A    |
| 4.12     | Balloons                                                                             | N/A    |
| 4.13     | Cords of toy kites and other flying toys.                                            | N/A    |
| 4.14     | Enclosures                                                                           |        |
| 4.14.1   | Toys which a child can enter                                                         | N/A    |
| 4.14.2   | Masks and helmets                                                                    | N/A    |
| 4.15     | Toys intended to bear the mass of a child                                            |        |
| 4.15.1   | Toys propelled by the child or by other means                                        | N/A    |
| 4.15.2   | Toy bicycles                                                                         | N/A    |
| 4.15.3   | Rocking horses and similar toys                                                      | N/A    |
| 4.15.4   | Toys not propelled by a child                                                        | N/A    |
| 4.15.5   | Toys scooters                                                                        | N/A    |
| 4.16     | Heavy immobile toys                                                                  | N/A    |
| 4.17     | Projectiles                                                                          |        |
| 4.17.1   | General                                                                              | N/A    |
| 4.17.2   | All projectiles                                                                      | N/A    |
| 4.17.3   | Projectile toy with stored energy                                                    | N/A    |
| 4.17.4   | Certain projectile toys without stored energy                                        | N/A    |
| 4.18     | Aquatic toys and inflatable toys                                                     | N/A    |
| 4.19     | Percussion caps specifically designed for use in toys and toys using percussion caps | N/A    |
| 4.20     | Acoustics                                                                            |        |
| 4.20.2.1 | General                                                                              | N/A    |
| 4.20.2.2 | Close-to-the-ear toys                                                                | N/A    |
| 4.20.2.3 | Table-top or floor toys                                                              | N/A    |
| 4.20.2.4 | Hand-held toys                                                                       | N/A    |
| 4.20.2.5 | Toys using headphones or earphones                                                   | N/A    |
| 4.20.2.6 | Rattles                                                                              | N/A    |
| 4.20.2.7 | Squeeze toys                                                                         | N/A    |
| 4.20.2.8 | Pull-along or push toys                                                              | N/A    |
| 4.20.2.9 | Percussion toys                                                                      | N/A    |

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

| Section   | Description                                                              | Result |
|-----------|--------------------------------------------------------------------------|--------|
| 4.20.2.10 | Wind toys                                                                | N/A    |
| 4.20.2.11 | Cap-firing toys                                                          | N/A    |
| 4.20.2.12 | Voice toys                                                               | N/A    |
| 4.21      | Toys containing a non-electrical heat source                             | N/A    |
| 4.22      | Small balls                                                              | N/A    |
| 4.23      | Magnets                                                                  | N/A    |
| 4.24      | Yo-yo balls                                                              | N/A    |
| 4.25      | Toys attached to food                                                    | N/A    |
| 4.26      | Toy disguise costumes                                                    | N/A    |
| 4.27      | Flying toys                                                              |        |
| 4.27.1    | General                                                                  | N/A    |
| 4.27.2    | Rotors and propellers on flying toys                                     | N/A    |
| 4.27.3    | Rotors and propellers on remote controlled flying toys                   | N/A    |
| 5         | Toys intended for children under 36 months                               |        |
| 5.1       | General requirements                                                     | N/A    |
| 5.2       | Soft-filled toys and soft-filled parts of a toy                          | N/A    |
| 5.3       | Plastic sheeting                                                         | N/A    |
| 5.4       | Cords, chains and electrical cables in toys                              | N/A    |
| 5.5       | Liquid-filled toys                                                       | N/A    |
| 5.6       | Speed limitation of electrically-driven ride-on toys                     | N/A    |
| 5.7       | Glass and porcelain                                                      | N/A    |
| 5.8       | Shape and size of certain toys                                           | N/A    |
| 5.9       | Toys comprising monofilament fibres                                      | N/A    |
| 5.10      | Small balls                                                              | N/A    |
| 5.11      | Play figures                                                             | N/A    |
| 5.12      | Hemispheric-shaped toys                                                  | N/A    |
| 5.13      | Suction cups                                                             | N/A    |
| 5.14      | Straps intended to be worn fully or partially around the neck            | N/A    |
| 5.15      | Sledges with cords for pulling                                           | N/A    |
| 6         | Packaging                                                                | N/A    |
| 7         | Warnings, markings and instructions for use                              |        |
| 7.1       | General                                                                  | P      |
| 7.2       | Toys not intended for children under 36 months                           | N/A    |
| 7.3       | Latex Balloons                                                           | N/A    |
| 7.4       | Aquatic toys                                                             | N/A    |
| 7.5       | Functional Toys                                                          | N/A    |
| 7.6       | Hazardous sharp functional edges and points                              | N/A    |
| 7.7       | Projectiles toys                                                         | N/A    |
| 7.8       | Imitation protective masks and helmets                                   | N/A    |
| 7.9       | Toy kites                                                                | N/A    |
| 7.10      | Roller skates, inline skates, skateboards and certain other ride-on toys | N/A    |
| 7.11      | Toys intended to be strung across a cradle, cot, or perambulator         | N/A    |
| 7.12      | Liquid-filled teethers                                                   | N/A    |
| 7.13      | Percussion caps specifically designed for use in toys                    | N/A    |
| 7.14      | Acoustics                                                                | N/A    |
| 7.15      | Toys bicycles                                                            | N/A    |
| 7.16      | Toys intended to bear the mass of a child                                | N/A    |
| 7.17      | Toys comprising monofilament fibres                                      | N/A    |
| 7.18      | Toy scooters                                                             | N/A    |

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

| Section | Description                                                                               | Result |
|---------|-------------------------------------------------------------------------------------------|--------|
| 7.19    | Rocking horses and similar toys                                                           | N/A    |
| 7.20    | Magnetic/electrical experimental sets                                                     | N/A    |
| 7.21    | Toy with electrical cables exceeding 300mm in length                                      | N/A    |
| 7.22    | Toys with cords or chains intended for children of 18 months and over but under 36 months | N/A    |
| 7.23    | Toys intended to be attached to a cradle, cot or perambulator                             | N/A    |
| 7.24    | Sledges with cords for pulling                                                            | N/A    |
| 7.25    | Flying toys                                                                               |        |
| 7.25.1  | Flying toys                                                                               | N/A    |
| 7.25.2  | Remote controlled flying toys                                                             | N/A    |
| 7.26    | Improvised projectiles                                                                    | N/A    |

**Remark:**

P - Pass, F - Fail, N/A - Not Applicable, N/C - Not Conduct as per client's request

### Physical and Mechanical Hazards (C/D/E/F/G/H/I/J/K)

Test Request: As specified in European Standard on Safety of Toys EN 71-1:2014+A1:2018

| Section | Description                                                        | Result |
|---------|--------------------------------------------------------------------|--------|
| 4       | General requirements                                               |        |
| 4.1     | Material cleanliness (by visual assessment)                        | P      |
| 4.2     | Assembly                                                           | N/A    |
| 4.3     | Flexible plastic sheeting                                          | N/A    |
| 4.4     | Toy Bags                                                           | N/A    |
| 4.5     | Glass                                                              | N/A    |
| 4.6     | Expanding Materials                                                | N/A    |
| 4.7     | Edges                                                              | P      |
| 4.8     | Points and Metallic Wires                                          | P      |
| 4.9     | Protruding parts                                                   | N/A    |
| 4.10    | Parts moving against each other                                    |        |
| 4.10.1  | Folding and sliding mechanisms                                     | N/A    |
| 4.10.2  | Driving mechanisms.                                                | N/A    |
| 4.10.3  | Hinges                                                             | N/A    |
| 4.10.4  | Springs                                                            | N/A    |
| 4.11    | Mouth-actuated toys and other toys intended to be put in the mouth | N/A    |
| 4.12    | Balloons                                                           | N/A    |
| 4.13    | Cords of toy kites and other flying toys.                          | N/A    |
| 4.14    | Enclosures                                                         |        |
| 4.14.1  | Toys which a child can enter                                       | N/A    |
| 4.14.2  | Masks and helmets                                                  | N/A    |
| 4.15    | Toys intended to bear the mass of a child                          |        |
| 4.15.1  | Toys propelled by the child or by other means                      | N/A    |
| 4.15.2  | Toy bicycles                                                       | N/A    |
| 4.15.3  | Rocking horses and similar toys                                    | N/A    |
| 4.15.4  | Toys not propelled by a child                                      | N/A    |

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

| Section   | Description                                                                          | Result |
|-----------|--------------------------------------------------------------------------------------|--------|
| 4.15.5    | Toys scooters                                                                        | N/A    |
| 4.16      | Heavy immobile toys                                                                  | N/A    |
| 4.17      | Projectiles                                                                          |        |
| 4.17.1    | General                                                                              | N/A    |
| 4.17.2    | All projectiles                                                                      | N/A    |
| 4.17.3    | Projectile toy with stored energy                                                    | N/A    |
| 4.17.4    | Certain projectile toys without stored energy                                        | N/A    |
| 4.18      | Aquatic toys and inflatable toys                                                     | N/A    |
| 4.19      | Percussion caps specifically designed for use in toys and toys using percussion caps | N/A    |
| 4.20      | Acoustics                                                                            |        |
| 4.20.2.1  | General                                                                              | N/A    |
| 4.20.2.2  | Close-to-the-ear toys                                                                | N/A    |
| 4.20.2.3  | Table-top or floor toys                                                              | N/A    |
| 4.20.2.4  | Hand-held toys                                                                       | N/A    |
| 4.20.2.5  | Toys using headphones or earphones                                                   | N/A    |
| 4.20.2.6  | Rattles                                                                              | N/A    |
| 4.20.2.7  | Squeeze toys                                                                         | N/A    |
| 4.20.2.8  | Pull-along or push toys                                                              | N/A    |
| 4.20.2.9  | Percussion toys                                                                      | N/A    |
| 4.20.2.10 | Wind toys                                                                            | N/A    |
| 4.20.2.11 | Cap-firing toys                                                                      | N/A    |
| 4.20.2.12 | Voice toys                                                                           | N/A    |
| 4.21      | Toys containing a non-electrical heat source                                         | N/A    |
| 4.22      | Small balls                                                                          | N/A    |
| 4.23      | Magnets                                                                              | N/A    |
| 4.24      | Yo-yo balls                                                                          | N/A    |
| 4.25      | Toys attached to food                                                                | N/A    |
| 4.26      | Toy disguise costumes                                                                | N/A    |
| 4.27      | Flying toys                                                                          |        |
| 4.27.1    | General                                                                              | N/A    |
| 4.27.2    | Rotors and propellers on flying toys                                                 | N/A    |
| 4.27.3    | Rotors and propellers on remote controlled flying toys                               | N/A    |
| 5         | Toys intended for children under 36 months                                           |        |
| 5.1       | General requirements                                                                 | N/A    |
| 5.2       | Soft-filled toys and soft-filled parts of a toy                                      | N/A    |
| 5.3       | Plastic sheeting                                                                     | N/A    |
| 5.4       | Cords, chains and electrical cables in toys                                          | N/A    |
| 5.5       | Liquid-filled toys                                                                   | N/A    |
| 5.6       | Speed limitation of electrically-driven ride-on toys                                 | N/A    |
| 5.7       | Glass and porcelain                                                                  | N/A    |
| 5.8       | Shape and size of certain toys                                                       | N/A    |
| 5.9       | Toys comprising monofilament fibres                                                  | N/A    |
| 5.10      | Small balls                                                                          | N/A    |
| 5.11      | Play figures                                                                         | N/A    |
| 5.12      | Hemispheric-shaped toys                                                              | N/A    |
| 5.13      | Suction cups                                                                         | N/A    |
| 5.14      | Straps intended to be worn fully or partially around the neck                        | N/A    |
| 5.15      | Sledges with cords for pulling                                                       | N/A    |
| 6         | Packaging                                                                            | N/A    |

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

| Section | Description                                                                               | Result |
|---------|-------------------------------------------------------------------------------------------|--------|
| 7       | Warnings, markings and instructions for use                                               |        |
| 7.1     | General                                                                                   | P      |
| 7.2     | Toys not intended for children under 36 months                                            | N/A    |
| 7.3     | Latex Balloons                                                                            | N/A    |
| 7.4     | Aquatic toys                                                                              | N/A    |
| 7.5     | Functional Toys                                                                           | N/A    |
| 7.6     | Hazardous sharp functional edges and points                                               | N/A    |
| 7.7     | Projectiles toys                                                                          | N/A    |
| 7.8     | Imitation protective masks and helmets                                                    | N/A    |
| 7.9     | Toy kites                                                                                 | N/A    |
| 7.10    | Roller skates, inline skates, skateboards and certain other ride-on toys                  | N/A    |
| 7.11    | Toys intended to be strung across a cradle, cot, or perambulator                          | N/A    |
| 7.12    | Liquid-filled teethingers                                                                 | N/A    |
| 7.13    | Percussion caps specifically designed for use in toys                                     | N/A    |
| 7.14    | Acoustics                                                                                 | N/A    |
| 7.15    | Toys bicycles                                                                             | N/A    |
| 7.16    | Toys intended to bear the mass of a child                                                 | N/A    |
| 7.17    | Toys comprising monofilament fibres                                                       | N/A    |
| 7.18    | Toy scooters                                                                              | N/A    |
| 7.19    | Rocking horses and similar toys                                                           | N/A    |
| 7.20    | Magnetic/electrical experimental sets                                                     | N/A    |
| 7.21    | Toy with electrical cables exceeding 300mm in length                                      | N/A    |
| 7.22    | Toys with cords or chains intended for children of 18 months and over but under 36 months | N/A    |
| 7.23    | Toys intended to be attached to a cradle, cot or perambulator                             | N/A    |
| 7.24    | Sledges with cords for pulling                                                            | N/A    |
| 7.25    | Flying toys                                                                               |        |
| 7.25.1  | Flying toys                                                                               | N/A    |
| 7.25.2  | Remote controlled flying toys                                                             | N/A    |
| 7.26    | Improvised projectiles                                                                    | N/A    |

**Remark:**

P - Pass, F - Fail, N/A - Not Applicable, N/C - Not Conduct as per client's request

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Labeling Requirement (C/D/E/G/H/I)

Test Request: Labeling requirement including Washing/Cleaning instruction, CE mark, importer / manufacturer name and address, product identification as specified in Directive 2009/48/EC  
- Safety of toys

| Labeling Content              | Observation Result                               | Location          | Conclusion |
|-------------------------------|--------------------------------------------------|-------------------|------------|
| Washing/Cleaning Instruction  | Not Applicable                                   | -                 | -          |
| CE Mark                       | Present, Correct form, CE marking (height =31mm) | Packaging Product | Pass       |
| Importer's Name & Address     | Present                                          | Packaging Product | Pass       |
| Manufacturer's Name & Address | Present                                          | Packaging Product | Pass       |
| Product ID                    | Present                                          | Packaging         | Pass       |

### Labeling Requirement for United Kingdom (C/D/E/G/H/I)

Test Request: Labeling requirement including Washing/Cleaning instruction, compliance marking, importer / manufacturer name and address, product identification as specified in The Toys (Safety) Regulations 2011 and The Product Safety and Metrology etc. (Amendment etc.) (EU Exit) Regulations 2019

| Labeling Content              | Observation Result                                 | Location          | Conclusion |
|-------------------------------|----------------------------------------------------|-------------------|------------|
| Washing/Cleaning Instruction  | Not Applicable                                     | -                 | -          |
| UKCA Marking                  | Present, Correct form, UKCA marking (height =35mm) | Packaging Product | Pass       |
| Importer's Name & Address     | Present                                            | Packaging Product | Pass       |
| Manufacturer's Name & Address | Present                                            | Packaging Product | Pass       |
| Product ID                    | Present                                            | Packaging         | Pass       |

\*\*\*TO BE CONTINUED\*\*\*

## TEST RESULT

### Labeling Requirement (F/J/K)

Test Request: Labeling requirement including Washing/Cleaning instruction, CE mark, importer / manufacturer name and address, product identification as specified in Directive 2009/48/EC  
- Safety of toys

| Labeling Content              | Observation Result                               | Location          | Conclusion |
|-------------------------------|--------------------------------------------------|-------------------|------------|
| Washing/Cleaning Instruction  | Not Applicable                                   | -                 | -          |
| CE Mark                       | Present, Correct form, CE marking (height =31mm) | Packaging Product | Pass       |
| Importer's Name & Address     | Present                                          | Packaging         | Pass       |
| Manufacturer's Name & Address | Present                                          | Packaging Product | Pass       |
| Product ID                    | Present                                          | Packaging         | Pass       |

### Labeling Requirement for United Kingdom (F/J/K)

Test Request: Labeling requirement including Washing/Cleaning instruction, compliance marking, importer / manufacturer name and address, product identification as specified in The Toys (Safety) Regulations 2011 and The Product Safety and Metrology etc. (Amendment etc.) (EU Exit) Regulations 2019

| Labeling Content              | Observation Result                                 | Location          | Conclusion |
|-------------------------------|----------------------------------------------------|-------------------|------------|
| Washing/Cleaning Instruction  | Not Applicable                                     | -                 | -          |
| UKCA Marking                  | Present, Correct form, UKCA marking (height =35mm) | Packaging Product | Pass       |
| Importer's Name & Address     | Present                                            | Packaging         | Pass       |
| Manufacturer's Name & Address | Present                                            | Packaging Product | Pass       |
| Product ID                    | Present                                            | Packaging         | Pass       |

\*\*\*END OF THE REPORT\*\*\*