

Test Report

Number: SHAH01688011

Applicant: ZHEJIANG XIAOYUER INDUSTRY AND TRADE CO.
LTD.
No. 9 GUIHUA ROAD, BAIHUASHAN
INDUSTRIAL PARK, WUYI, ZHEJIANG, CHINA

Date: 11 Jun, 2024

Attn: LI

Sample Description:

One (1) group of submitted sample said to be :

Item Name : Kid's Study Desk and Chair Set

Item No. : Z-011+Y-011, Z-012+Y-011, Z-012+Y-012

Tests Conducted:

As requested by the applicant, for details refer to attached page(s).

Conclusion :

Tested Samples

Standard

Result

Submitted Sample

EN71-2: 2020 Flammability Test

Pass

See Remark

Submitted Sample

EN71-1: 2014+ A1: 2018 for Mechanical And Physical
Properties Excluding Labelling Requirement of Clause 7
Warnings, markings and instructions for use

Pass

See Remark

Submitted sample

EN 17191: 2021 Children's Furniture – Seating for
children – Safety requirements and test methods

Pass

Remark:

The submitted sample was examined not a toy and was not subjected to the scope of the European standard of toys EN71.

However, as requested by the applicant, the submitted sample was assessed under the requirement of EN71.

To be continued

Authorized By:

Intertek Testing Services Ltd. Zhejiang



Bobo Yao
Assistant General Manager



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<u>Tested Samples</u>	<u>Standard</u>	<u>Result</u>
Tested component(s) of submitted sample(s)	EN 71-3:2019+A1:2021 on migration of certain elements	Pass See Comment 1
Tested Components of Submitted Samples	Canada Consumer Product Safety Act Toys Regulations SOR/2011-17 Section 23 and amendment SOR/2022-122 on toxic elements test	Pass See Comment 2
Tested Components of Submitted Sample	Canada Consumer Products Containing Lead Regulations SOR/2018-83	Pass

Comment 1:

The testing scope of the following standard(s) was/were not applicable to the submitted samples. However, the test results of the samples met the related requirements as stated in this report.

The submitted samples were examined not toys and were not subjected to the scope of the European Standard of Toys EN 71. However, as requested by the applicant, the submitted samples were assessed under the requirement of EN 71 (Part 3), and the result met the requirement of the standard.

Note: the tested samples passed EN71-3 requirements for organic tin, however other organic tin compounds may also be present in the samples. The Toy Safety Directive (2009/48/EC) requirement covers total migratable organic tin.

Comment 2:

The testing scope of the following standard(s) was/were not applicable to the submitted sample(s) / tested component(s). However, the test result(s) of the sample(s) /tested component(s) met the related requirements as stated in this report.

To be continued

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Intertek Testing Services Ltd. Zhejiang



Bobo Yao
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<u>Tested Samples</u>	<u>Standard</u>	<u>Result</u>
Tested component of submitted sample	Phthalates content requirement in Canada Consumer Product Safety Act Phthalates Regulation SOR/2016-188	Pass See Comment 3
Tested Components of Submitted Sample	Canada Consumer Product Safety Act Surface Coating Materials Regulation SOR/2016-193 for total Mercury content in surface coating materials	Pass
Submitted sample	Canada Consumer Product Safety Act Toys Regulations SOR/2011-17 with amendments SOR/2016-195, SOR/2016-302 and SOR/2018-138 - Mechanical and Physical test	Pass
Submitted sample	Canada Consumer Product Safety Act Toys Regulations SOR/2011-17 section 21 with amendments SOR/2016-195, SOR/2016-302 and SOR/2018-138 - Cellulose Nitrate and Celluloid	Pass

Comment 3:

The testing scope of the standard (CCPSA) was not applicable to the submitted samples. However, the test results of submitted sample(s) / tested component(s) (1),(2+3),(8+9+10),(11+12),(14+16),(17+18),(19),(7) did not exceed the limits of the standard.

To be continued

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Tests Conducted

1. Flammability Test

As per European Standard on Safety of Toys EN71-2: 2020

Clause	Testing Items	Assessment
4.1	General	P
4.2	Toys to be worn on the head	
4.2.2	Beards, moustaches, wigs, etc., made from pile or flowing elements which protrude 50 mm or more from the surface of the toy	NA
4.2.3	Beards, moustaches, wigs, etc., made from pile or flowing elements which protrude less than 50 mm from the surface of the toy	NA
4.2.4	Full or partial moulded head masks	NA
4.2.5	Toys to be worn on the head	NA
4.3	Toy Disguise Costumes and Toys Intended to be Worn by a Child in Play	NA
4.4	Toys Intended to be Entered by a Child	NA
4.5	Soft Filled Toys	NA

Remark : P = Pass NA = Not Applicable

Date Sample Received: May 09, 2024
Testing Period: May 09, 2024 to May 11, 2024

2. Mechanical and Physical Test

As Per European Standard on Safety of Toys EN71-1: 2014+ A1: 2018.

Applicant's Specified Age Group for Testing: For ages 3 years and up.

Clause	Testing Items	Assessment
4	General Requirements	
4.1	Material cleanliness	P
4.2	Assembly	P#
4.3	Flexible plastic sheeting	NA
4.4	Toy bags	NA
4.5	Glass	NA
4.6	Expanding materials	NA
4.7	Edges	P
4.8	Points and metallic wires	P
4.9	Protruding parts	NA
4.10	Parts moving against each other	P
4.11	Mouth actuated toys and other toys intended to be put in the mouth	NA
4.12	Balloons	NA
4.13	Cords of toy kites and other flying toys	NA
4.14	Enclosures	NA
4.15	Toys intended to bear the mass of a child	NA



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Clause	Testing Items	Assessment
4.16	Heavy immobile toys	P
4.17	Projectile toys	NA
4.18	Aquatic toys and inflatable toys	NA
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	NA
4.20	Acoustics	NA
4.21	Toys containing a non-electrical heat source	NA
4.22	Small balls	NA
4.23	Magnets	NA
4.24	Yo-yo balls	NA
4.25	Toys attached to food	NA
4.26	Toy disguise costumes	NA
4.27	Flying toys	NA
5	Toys intended for Children under 36 Months	
5.1	General requirements	NA
5.2	Soft-filled toys and soft-filled parts of a toy	NA
5.3	Plastic sheeting	NA
5.4	Cords, chains and electrical cables in toys	NA
5.5	Liquid filled toys	NA
5.6	Speed limitation of electrically-driven ride-on toys	NA
5.7	Glass and porcelain	NA
5.8	Shape and size of certain toys	NA
5.9	Toys comprising monofilament fibres	NA
5.10	Small balls	NA
5.11	Play figures	NA
5.12	Hemispheric-shaped toys	NA
5.13	Suction cups	NA
5.14	Straps intended to be worn fully or partially around the neck	NA
5.15	Sledges with cords for pulling	NA
6	Packaging	NA
7	Warnings, markings and instructions for use	#

Remark:

P = Pass

NA = Not Applicable

= The testing scope of European standard on safety of toy EN71 was not applicable to the submitted samples. Therefore, the warning and other requirements specified in clause 7 did not apply.

Date Sample Received: May 09, 2024

Testing Period: May 09, 2024 to May 11, 2024



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Tests Conducted

3. Children's Furniture – Seating for children – Safety requirements and test methods

With reference to EN 17191: 2021 Children's Furniture – Seating for children – Safety requirements and test methods, the submitted sample was subjected to the following tests.

Number of sample tested: One (1) piece.

Seating size: Size 3.

Test level: Level 2.

Initial inspection: No visible defect was found.

Executive summary:

Clause	Test Items	Verdict
1	Scope	--
2	Normative references	--
3	Terms and definitions	--
4	General requirements and test conditions	--
5	Test equipment	--
6	General safety requirements	--
6.1	Hazards from glass	P
6.2	Surfaces, edges, corners and points	P
6.3	Entrapment hazards	--
6.3.1	Finger entrapment hazards	P
6.3.2	Partially bound, V and irregular shaped openings	NA
6.4	Hazards caused by folding of the seating	--
6.4.1	Requirements	--
6.4.1.1	General	NA
6.4.1.2	Incomplete deployment during the setting up	NA
6.4.1.3	Unintentional folding of the seating	NA
6.4.2	Automatic locking devices	NA
6.5	Hazards caused by deckchairs	NA
6.6	Hazard from moving parts	--
6.6.1	Shearing and compression hazards when setting up and folding	P
6.6.2	Shearing and compression points under influence of powered mechanism	NA
6.6.3	Shearing and compression points during use	P
6.7	Hazards from enclosure	NA
6.8	Entanglement hazards	NA
6.9	Choking and ingestion hazards	--
6.9.1	Requirements	NA
6.9.2	Test methods	--
6.9.3	Filling material	--
6.9.3.1	Requirements	NA
6.9.3.2	Removable seating covers	NA
6.9.3.3	Test methods	--
6.9.4	Magnets	NA
6.10	Suffocation hazards	NA
7	Chemicals requirements	NA
8	Fire and thermal hazards	P
9	Strength and durability requirements	See remark 1



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Tests Conducted

Clause	Test Items	Verdict
10	Stability requirements	--
10.1	General	See remark 2
10.2	Alternative rearwards stability tests for rocking and reclining chairs	--
10.2.1	Rocking chairs	NA
10.2.2	Reclining chairs	NA
10.2.3	Summary	--
11	Product information	--
11.1	General	P
11.2	Marking	--
11.2.1	Requirements	P
11.2.2	Durability of marking	P
11.3	Purchase information	NA
11.4	Instructions for use	--
11.4.1	General	P
11.4.2	Warnings	P
11.4.3	Additional information	P

Abbreviation: P=Pass NA=Not Applicable

Remark:

1: Strength and durability tests

With reference to EN 1728: 2012 + AC: 2013 Furniture – Seating – Test Methods for the Determination of Strength and Durability, the submitted sample was subjected to the following tests.

Number of sample tested: One (1) piece.

Executive summary:

Clause	Test Items	Test Parameters	Test Level		Verdict
			1	2	
Seat and back static load test	EN 1728: 2012 + AC: 2013 clause 6.4	Seat force: N Back force: N Min Back force: N Cycles	750 200 170 10	1000 250 200 10	P
Seat front edge static load test	EN 1728: 2012 + AC: 2013 clause 6.5	Force, N Cycles	- -	1000 10	P
Footrest static load test	EN 1728: 2012 + AC: 2013 clause 6.8	Force, N Cycles	750 10	1000 10	NA
Armrest downward static load test	EN 1728: 2012 + AC: 2013 clause 6.11	Force, N Cycles	250 10	350 10	NA
Seat and back durability test	EN 1728: 2012 + AC: 2013 clause 6.17	Seat Force, N Back Force, N Cycles	- - -	750 250 10000	P
Seat front edge durability test	EN 1728: 2012 + AC: 2013 clause 6.18	Force, N Cycles	- -	750 5000	P
Armrest durability test	EN 1728: 2012 + AC: 2013 clause 6.20	Force, N Cycles	- -	200 5000	NA
Leg forward static load test	EN 1728: 2012 + AC: 2013 clause 6.15	Force, N Force, N (min) Seat load, N Cycles	180 100 300 10	300 150 750 10	P



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Clause	Test Items	Test Parameters	Test Level		Verdict
			1	2	
Leg sideways static load test	EN 1728: 2012 + AC: 2013 clause 6.16	Force, N Force, N (min) Seat load, N Cycles	180 100 300 10	250 150 750 10	P
Seat impact test	EN 1728: 2012 + AC: 2013 clause 6.24	Drop height: mm Cycles	100 10	140 10	P
Back impact test	EN 1728: 2012 + AC: 2013 clause 6.25	Height of fall: mm Cycles	70 10	120 10	P

Abbreviation: **P**=Pass **NA**=Not Applicable

2: Stability requirements

With reference to EN 1022: 2018 – Furniture – Seating – Determination of Stability, the submitted sample was subjected to the following tests.

Number of sample tested: One (1) piece.

Executive summary: (Before strength and durability tests)

Clause	Test Items	Test Parameters	Test Level		Assessment
			1	2	
Forward overturning	EN 1022: 2018 clause 7.3.1 and 7.3.2	Seat force, N Horizontal force, N	250 20	500 20	P
Corner stability	EN 1022: 2018 clause 7.3.3	Seat force, N	-	250	P
Sideways stability without arms	EN 1022: 2018 clause 7.3.4	Seat force, N Horizontal force, N	250 20	500 20	P
Sideways stability with armrests	EN 1022: 2018 clause 7.3.5	Arm force, N Seat force, N Horizontal force, N	150 110 20	300 210 20	NA
Rearwards stability	EN 1022: 2018 clause 7.3.6	Seat force, N Back force, N	250 70	500 130	P

Abbreviation: **P**=Pass **NA**=Not Applicable

Executive summary: (After strength and durability tests)

Clause	Test Items	Test Parameters	Test Level		Assessment
			1	2	
Forward overturning	EN 1022: 2018 clause 7.3.1 and 7.3.2	Seat force, N Horizontal force, N	250 20	500 20	P
Corner stability	EN 1022: 2018 clause 7.3.3	Seat force, N	-	250	P
Sideways stability without arms	EN 1022: 2018 clause 7.3.4	Seat force, N Horizontal force, N	250 20	500 20	P
Sideways stability with armrests	EN 1022: 2018 clause 7.3.5	Arm force, N Seat force, N Horizontal force, N	150 110 20	300 210 20	NA
Rearwards stability	EN 1022: 2018 clause 7.3.6	Seat force, N Back force, N	250 70	500 130	P

Abbreviation: **P**=Pass **NA**=Not Applicable



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Note:

1 Sample description:

Overall dimensions(mm): 523 (Depth) x 488 (Width) x 698/783 (Height)

Weight(kg): 4.95

Date Sample Received: May 09, 2024

Testing Period: May 09, 2024 to May 16, 2024

4. 19 Toxic Element Migration Test

(A) Test Result

As per EN 71-3:2019+A1:2021 and followed by Inductively Coupled Plasma Atomic Emission Spectrometry, Inductively Coupled Argon Mass Spectrometry, Ion Chromatography- Inductively Coupled Plasma-Mass Spectrometry, Ion Chromatography with UV-VIS and Gas Chromatographic - Mass Spectrometry.

Category (III): Scraped-off toy material

Element	Result (mg/kg)					Reporting Limit (mg/kg)	Limit (mg/kg)
	(1)	(2)	(3)	(7)	(8)		
Aluminium (Al)	ND	ND	ND	ND	ND	300	28130
Antimony (Sb)	ND	ND	ND	ND	ND	10	560
Arsenic (As)	ND	ND	ND	ND	ND	10	47
Barium (Ba)	350	ND	ND	ND	ND	10	18750
Boron (B)	ND	ND	ND	ND	ND	50	15000
Cadmium (Cd)	ND	ND	ND	ND	ND	5	17
Chromium (III) (Cr III)	ND	ND	ND	ND	ND	10	460
Chromium (VI) (Cr VI)	ND	ND	ND	ND	ND	0.025	0.053
Cobalt (Co)	ND	ND	ND	ND	ND	10	130
Copper (Cu)	ND	ND	ND	ND	ND	10	7700
Lead (Pb)	ND	ND	ND	ND	ND	10	23
Manganese (Mn)	ND	ND	ND	ND	ND	10	15000
Mercury (Hg)	ND	ND	ND	ND	ND	10	94
Nickel (Ni)	ND	ND	ND	ND	ND	10	930
Selenium (Se)	ND	ND	ND	ND	ND	10	460
Strontium (Sr)	ND	ND	ND	ND	ND	100	56000
Tin (Sn)	ND	ND	ND	ND	ND	2.5	180000
Organic tin **	ND	ND	ND	ND	ND	5	12
Zinc (Zn)	ND	ND	ND	ND	ND	100	46000

Element	Result (mg/kg)					Reporting Limit (mg/kg)	Limit (mg/kg)
	(9)	(10)	(11)	(12)	(14)		
Aluminium (Al)	ND	ND	ND	ND	ND	300	28130
Antimony (Sb)	ND	ND	ND	ND	ND	10	560
Arsenic (As)	ND	ND	ND	ND	ND	10	47
Barium (Ba)	ND	ND	ND	ND	ND	10	18750
Boron (B)	ND	ND	ND	ND	ND	50	15000
Cadmium (Cd)	ND	ND	ND	ND	ND	5	17
Chromium (III) (Cr III)	ND	ND	ND	ND	ND	10	460
Chromium (VI) (Cr VI)	ND	ND	ND	ND	ND	0.025	0.053
Cobalt (Co)	ND	ND	ND	ND	ND	10	130



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Copper (Cu)	ND	ND	ND	ND	ND	10	7700
Lead (Pb)	ND	ND	ND	ND	ND	10	23
Manganese (Mn)	ND	ND	ND	ND	ND	10	15000
Mercury (Hg)	ND	ND	ND	ND	ND	10	94
Nickel (Ni)	ND	ND	ND	ND	ND	10	930
Selenium (Se)	ND	ND	ND	ND	ND	10	460
Strontium (Sr)	ND	ND	ND	ND	ND	100	56000
Tin (Sn)	ND	ND	ND	ND	ND	2.5	180000
Organic tin ⁺⁺	ND	ND	ND	ND	ND	5	12
Zinc (Zn)	ND	ND	ND	ND	ND	100	46000

Element	Result (mg/kg)				Reporting Limit (mg/kg)	Limit (mg/kg)
	(16)	(17)	(18)	(19)		
Aluminium (Al)	ND	ND	ND	339	300	28130
Antimony (Sb)	ND	ND	ND	ND	10	560
Arsenic (As)	ND	ND	ND	ND	10	47
Barium (Ba)	ND	ND	ND	ND	10	18750
Boron (B)	ND	ND	ND	ND	50	15000
Cadmium (Cd)	ND	ND	ND	ND	5	17
Chromium (III) (Cr III)	ND	ND	ND	ND	10	460
Chromium (VI) (Cr VI)	ND	ND	ND	ND	0.025	0.053
Cobalt (Co)	ND	ND	ND	ND	10	130
Copper (Cu)	ND	ND	ND	ND	10	7700
Lead (Pb)	ND	ND	ND	ND	10	23
Manganese (Mn)	ND	ND	ND	ND	10	15000
Mercury (Hg)	ND	ND	ND	ND	10	94
Nickel (Ni)	ND	ND	ND	ND	10	930
Selenium (Se)	ND	ND	ND	ND	10	460
Strontium (Sr)	ND	ND	ND	ND	100	56000
Tin (Sn)	ND	ND	ND	ND	2.5	180000
Organic tin ⁺⁺	ND	ND	ND	ND	5	12
Zinc (Zn)	ND	ND	ND	ND	100	46000

Remark :

++ = Unless the test results were marked with "#" or "Δ", Chromium (III) & Chromium (VI) and Organic tin contents were not directly determined and were derived from migration results of total chromium and tin respectively.

- Organic tin test result was expressed as tributyl tin.

ND = Not detected (less than reporting limit)

Δ = Confirmation test was performed on the tested component. The reported value was the sum of the migration values of Dimethyl tin, Methyl tin, Butyl tin, Dibutyl tin, Tributyl tin, Tetrabutyl tin, n-Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin and Triphenyl tin after converted to Tributyl tin by calculation. Other Organic tin compounds may be also be present in sample as stated in EN 71-3:2019+A1:2021.

Tested component(s): See component list in the last section of this report / See W/S

(B) Categories of various toy materials

Category I: Dry, brittle, powder like or pliable



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Solid toy material from which powder-like material is released during playing and semi-solid materials that may also leave residues on the hands during play. The material can be ingested. Contamination of the hands with the material may contribute to the oral exposure of the material. (e.g. the cores of colouring pencils, chalk, crayons, modelling clays and plaster).

Category II: Liquid or sticky

Fluid or viscous toy material, which can be ingested or to which dermal exposure may occur during playing. (e.g. liquid paints, finger paints, liquid ink in pens, glue sticks, slimes, bubble solution).

Category III: Scraped-off

Solid toy material with or without a coating, which can be ingested as a result of biting, tooth scraping, sucking or licking. (e.g. coatings, lacquers, plastics, paper, textiles, glass, ceramic, metallic, wooden, bone, leather and other materials).

Date Sample Received: May 09, 2024

Testing Period: May 09, 2024 to May 21, 2024

5. Toxic Elements Analysis (CCPSA SOR/2011-17 and Amendment SOR/2022-122)

With reference to Method C-02.2.1, C-07 published in Health Canada Product safety reference manual Book 5 - Laboratory Policies and Procedures Part B: Test Methods Section and Section 8.3.2 to 8.3.5 of the ASTM Standard Consumer Safety Specification on Toy Safety F963-23, acid digestion and extraction methods were used and toxic elements content were determined by Inductively Coupled Plasma-mass Spectrometry and Inductively Coupled Argon Plasma Spectrometry.

Test Item	Result (mg/kg)	Reporting Limit (mg/kg)	Limit (mg/kg)
	(1)		
Tot. Lead (Pb)	ND	20	90
Tot. Mercury (Hg)	ND	0.047	10
Sol. Cadmium (Cd)	ND	5	1000
Sol. Antimony (Sb)	ND	5	1000
Sol. Selenium (Se)	ND	5	1000
Sol. Arsenic (As)	ND	2.5	1000
Sol. Barium (Ba)	245#	5	1000

The above limit was quoted according to Canada Consumer Product Safety Act Toys Regulations SOR/2011-17 Section 23 and Amendment SOR/2022-122 for prohibition on toxic elements in stickers, films and surface coating materials.

Remark : Tot. = Total

Sol. = Soluble

ND = Not detected (Less than reporting limit)

Δ = The result is based on dry weight of sample

= The results were adjusted by subtracting analytical correction factor.

Tested Component(s): See component list in the last section of this report.

Date Sample Received: May 09, 2024

Testing Period: May 09, 2024 to May 20, 2024



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Tests Conducted

6. Total Lead (Pb) Content (Canada Consumer Products Containing Lead Regulations SOR/2018-83)

As per methods C02.2, C02.3 and C02.4, acid digestion was used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry analysis.

Test Item	Result (mg/kg)					Reporting Limit (mg/kg)	Limit (mg/kg)
	(1)	(2+3)	(7)	(8+9+10)	(11+12)		
Lead	ND	ND	27	ND	ND	20	90

Test Item	Result (mg/kg)						Reporting Limit (mg/kg)	Limit (mg/kg)
	(14+16)	(17+18)	(19)	(26)	(29)	(31)		
Lead	ND	ND	ND	ND	ND	ND	20	90

Test Item	Result (mg/kg)						Reporting Limit (mg/kg)	Limit (mg/kg)
	(32)	(33)	(34)	(4)	(5)	(6)		
Lead	ND	ND	ND	ND	ND	ND	20	90

Test Item	Result (mg/kg)						Reporting Limit (mg/kg)	Limit (mg/kg)
	(13)	(15)	(20)	(21)	(22)	(23)		
Lead	ND	ND	ND	ND	ND	ND	20	90

Test Item	Result (mg/kg)					Reporting Limit (mg/kg)	Limit (mg/kg)
	(24)	(25)	(27)	(28)	(30)		
Lead	ND	ND	ND	ND	ND	20	90

The above limit was quoted according to Canada Consumer Products Containing Lead Regulations SOR/2018-83.

Remark: ND=Not detected (Less than reporting limit)

Tested Components: See component list in the last section of this report.

Date Sample Received: May 09, 2024

Testing Period: May 09, 2024 to May 20, 2024



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Tests Conducted

7. Phthalate Content Test

With reference to method CPSC-CH-C1001-09.3 and followed by solvent extraction and Gas Chromatography-Mass Spectrometry (GC-MS) analysis

<u>Tested Compound</u>	<u>Result (mg/kg)</u>			<u>Limit(mg/kg)</u>
	(1)	(2+3)	(8+9+10)	<u>(Max.)</u>
Di-butyl phthalate (DBP)	ND	ND	ND	1000
Di(2-ethyl hexyl) phthalate(DEHP)	ND	ND	ND	1000
Benzyl butyl phthalate (BBP)	ND	ND	ND	1000
Di-iso-nonyl phthalate (DINP)	ND	ND	ND	1000
Di-n-octyl phthalate (DNOP)	ND	ND	ND	1000
Di-iso-decyl phthalate (DIDP)	ND	ND	ND	1000

<u>Tested Compound</u>	<u>Result (mg/kg)</u>					<u>Limit(mg/kg)</u>
	(11+12)	(14+16)	(17+18)	(19)	(7)	<u>(Max.)</u>
Di-butyl phthalate (DBP)	ND	ND	ND	ND	ND	1000
Di(2-ethyl hexyl) phthalate(DEHP)	ND	ND	ND	ND	ND	1000
Benzyl butyl phthalate (BBP)	ND	ND	ND	ND	ND	1000
Di-iso-nonyl phthalate (DINP)	ND	ND	ND	ND	ND	1000
Di-n-octyl phthalate (DNOP)	ND	ND	ND	ND	ND	1000
Di-iso-decyl phthalate (DIDP)	ND	ND	ND	ND	ND	1000

Remark: The above limit was quoted according to Canada Consumer Product Safety Act Phthalates Regulation SOR/2016-188 for phthalate content on toys and child care articles.

Detection Limit = 100mg/kg
ND = Not Detected

Tested Components: See component list in the last section of this report.

Date Sample Received: May 09, 2024
Testing Period: May 09, 2024 to May 24, 2024

8. Total Mercury (Hg) Content in Surface Coating (CCPSA Surface Coating Materials Regulation SOR/2016-193)

With reference to Canada Consumer Product Safety Act Surface Coating Materials Regulation SOR/2016-193, acid digestion method was used and total Mercury content was determined by Inductively Coupled Argon Plasma Spectrometry analysis.

<u>Test Item</u>	<u>Result (mg/kg)</u>	<u>Reporting Limit</u>	<u>Limit</u>
	(1)		
Mercury (Hg)	ND	0.047	10

Remark: ND = Not detected

Tested Components: see component list in the last section of this report.

Date Sample Received: May 09, 2024
Testing Period: May 09, 2024 to May 20, 2024



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Tests Conducted

9. Physical and Mechanical Test

Test Standard: Canada Consumer Product Safety Act Toys Regulations SOR/2011-17 with amendments SOR/2016-195, SOR/2016-302 and SOR/2018-138.

Applicant specified age group for testing: For ages 3 years and up

The submitted samples were undergone the use and abuse tests in accordance with Canada Consumer Product Safety Act Toys Regulations SOR/2011-17 with amendments SOR/2016-195, SOR/2016-302 and SOR/2018-138.

<u>Test</u>	<u>Parameter</u>
Tip over test #1	3 times
Pull test	42.5±2 N
Push test	42.5±2 N

No.	Testing Items	Assessment
3	General - English and French bilingual statement	NA
4	Packaging	
	(a) The opening perimeter is less than 14 inches	NA
	(b) The opening perimeter is more than 14 inches	NA
	<u>Electrical hazard</u>	
5	Electrically operated toys	NA
6	Electrically heated toys	NA
	<u>Mechanical hazard</u>	
7	Small parts	NA
8	Metal edges	P
9	Wire frames	NA
10	Plastic edges	P
11	Wooden surfaces, edges and corners	NA
12	Glass	NA
13	Fasteners	P
14	Folding mechanism, bracket or bracing	NA
15	Spring-wound driving mechanisms	NA
16	Projectile components	NA
17	Toys which a child can enter and which can be closed by a lid or door	NA
18	Stationary toy that is intended to bear the weight of a child	NA
	<u>Auditory hazards</u>	
19	Noise limit	NA
	<u>Thermal hazards</u>	
20	Heated surfaces, parts or substances	NA
	<u>Dolls, plush toys and soft toys</u>	
28	Fastenings to attach parts, clothing or ornamentation	NA
29	Stuffing materials	
	(a) Clean and free from vermin	NA
	(b) Free from hard and sharp foreign matter	NA
30	Small parts -Squeaker, reed, valve or other similar device	NA



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No.	Testing Items	Assessment
31	Eyes and noses	NA
	<u>Plant seeds</u>	
35	Plant seeds for making noise	NA
36	Plant seeds for stuffing material	NA
37	Shaft-like handle	NA
38	Toy steam engines boilers	NA
39	Finger paints	NA
40	Rattle	NA
41	Elastics	NA
42	Yo-yo type balls	
	(a) Stretchable cords	NA
	(b) Similar product	NA
43	Magnetic force	NA
44	Warning of magnetic toys	NA

Remark: P = Pass

NA = Not Applicable

#1 = Due to the large size and heavy weight of the sample, the tip over test was conducted according to ISO 8124-1 section 5.24.3 instead of drop test.

Date Sample Received: May 09, 2024

Testing Period: May 09, 2024 to May 11, 2024

Cellulose Nitrate and Celluloid

Test Standard: Canada Consumer Product Safety Act Toys Regulations SOR/2011-17 section 21 with amendments SOR/2016-195, SOR/2016-302.and SOR/2018-138

	<u>Assessment</u>	<u>Requirement</u>
Cellulose Nitrate/Celluloid	Absent	Absent

Date Sample Received: May 09, 2024

Testing Period: May 09, 2024 to May 11, 2024

Components List:

- (1) Pale coating on metal
- (2) Black plastic (plug)
- (3) Pink plastic (body)
- (4) Slivery metal screw (M4*10)
- (5) Slivery metal nut
- (6) Slivery metal bolt on body frame
- (7) Black plastic on backrest
- (8) White plastic on bookrack
- (9) Light grey plastic (foot pad)



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- (10) Black plastic (foot pad)
- (11) Black plastic (spacer)
- (12) White plastic (adjuster)
- (13) Slivery metal pipe on body frame
- (14) White plastic (C6)
- (15) Slivery metal bolt on bookrack
- (16) White plastic (tabletop surface)
- (17) Black plastic on sliding rail
- (18) Wood grain plastic (tabletop surface)
- (19) White soft plastic sticker with pattern
- (20) Slivery metal nut on bookrack
- (21) Slivery metal on rotary knob
- (22) Slivery metal on adjuster
- (23) Slivery metal on foot pad
- (24) Slivery metal (sliding rail)
- (25) Slivery metal (sliding rail support)
- (26) Slivery metal excluding coating (body frame)
- (27) Slivery metal (tabletop support)
- (28) Slivery metal bolt on tabletop support
- (29) Slivery metal bolt (M6*40)
- (30) Slivery metal nut on tabletop support
- (31) Slivery metal bolt (M6*40)
- (32) Slivery metal bolt (M5*12)
- (33) Slivery metal bolt (M6*14)
- (34) Slivery metal gasket on tabletop support



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Picture 1: Submitted Sample(Physical test)



Picture 2: Submitted Sample(Physical test)



Picture 3: Submitted Sample(Physical test)



Picture 4: Submitted Sample(Chemical test)



Picture 5: Reference Sample



Picture 6: Reference Sample

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Picture 7: Reference Sample



Picture 8: Reference Sample



Picture 9: Reference Sample



Picture 10: Reference Sample



Picture 11: Reference Sample



Picture 12: Reference Sample

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Picture 13: Reference Sample

Note:
The additional pictures "5-13" of reference samples were added to this report at the request of the client and has not been tested by Intertek. The client stated in the letter of guarantee that reference pictures "5-13" of reference samples are exactly the same as the material of the sample submitted in this report.

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End Of Report

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