

Test Report

Number: SHAH01741437

Applicant: DEYI CHILDREN PRODUCTS CO., LTD
BOTOU INDUSTRIAL ESTATE, CHASHAN TOWN,
DONGGUAN CITY, GUANGDONG, CHINA, 523396

Date: 08 Nov, 2024

Attn: DAORONG ZHU

Sample Description:

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

Item Name : Slide
Item No. : 344-090
Quantity : 1
Labelled Age Group : 3+

Tests Conducted:

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

Conclusion:

<u>Tested Samples</u>	<u>Standard</u>	<u>Result</u>
Submitted Sample	EN71-1: 2014+ A1: 2018 for Mechanical And Physical Properties	Pass
Submitted Sample	BS EN71-1 : 2014 + A1 : 2018 - Mechanical and physical properties	Pass
Submitted Sample	EN71-2: 2020 Flammability Test	Pass
Submitted Sample	BS EN71-2: 2020 Flammability Test	Pass
Submitted Sample	EN71-8: 2018 Safety Of Toys - Activity Toys For Domestic Use	Pass
Submitted Sample	BS EN71-8: 2018 Safety of Toys - Activity Toys For Domestic Use	Pass
Tested Components of Submitted Sample	EN 71-3: 2019+A1: 2021 on migration of certain elements	Pass
Tested Components of Submitted Sample	BS EN 71-3: 2019+A1: 2021 on migration of certain elements	Pass

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 Components of Submitted Sample	Phthalates content requirement in Annex XVII Entry 51 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009 & Amendment Commission Regulation (EU) 2018/2005	Pass
Tested Components of Submitted Sample	Phthalates content requirement in Annex XVII Entry 52 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009 & Amendment Commission Regulation (EU) 2018/2005	Pass
Tested Components of Submitted Samples	Cadmium content requirement in Commission Regulation (EU) No. 494/2011 of 20 May 2011, (EU) No. 835/2012 of 18 September 2012 and (EU) No. 2016/217 of 16 February 2016 Amending Annex XVII entry 23 of the REACH Regulation (EC) No. 1907/2006	Pass
Tested Components of Submitted Sample	Polycyclic Aromatic Hydrocarbons (PAHs) content in Annex XVII Entry 50 of the REACH Regulation (EC) No. 1907/2006 & amendment (EU) No. 1272/2013	Pass
Tested Components of Submitted Sample	AfPS GS 2019:01 PAK (PAH) on Polycyclic Aromatic Hydrocarbons (PAHs) content	Pass
Tested Components of Submitted Sample	Azocolourants content requirement in Annex XVII Item 43 of the REACH Regulation (EC) No. 1907/2006 & Amendment (EC) No. 552/2009 and (EU) 2020/2096	Not Applicable
Submitted sample	ASTM F1148-24 Standard Consumer Safety Performance Specification for Home Playground Equipment	Pass See Remark
tested component(s) of submitted sample(s) / set(s)	U.S. Consumer Product Safety Improvement Act 2008 title I, section 101 for total Lead content in surface coating	Pass
Tested component(s) of submitted sample(s)	U.S. Consumer Product Safety Improvement Act 2008 title I, section 101 for total Lead content in non-surface coating materials (substrate)	Pass
Tested Components of Submitted Sample	US Consumer Product Safety Improvement Act 2008 Title I, Sec 108(a) & (b)(3) and US 16 CFR Part 1307 for Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates	Pass
Tested component(s) of submitted sample(s) / set(s)	U.S. CFR title 16(CPSC regulations) Part 1303 total Lead content	Pass

To be continued

Authorized By:
Intertek Testing Services Ltd. Zhejiang



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Tests Conducted

1. 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	NA
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
4.16	Heavy immobile toys	NA
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



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

Remark: P = Pass NA = Not Applicable

Artwork of packaging was provided for testing.



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Tests Conducted

Remark: Additional information according to the Toy Safety Directives 2009/48/EC requirement. These information also appears as a note within the EN 71 but are not standard requirements:

1. Marking

The manufacturer's and importer's name, registered trade name or registered trade mark, the address and the CE-marking shall be indicated on the toy or, where that is not possible, on its packaging or in a document accompany the toy. In addition, manufacturers shall ensure that their toys bear a type, batch, serial or model number or other element allowing their identification, or where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy.

After checking, it was found that:

	Toy	Packaging
Manufacturer's name	Absent	Absent
Manufacturer's address	Absent	Absent
Importer's name	Present	Present
Importer's address	Present	Present
Product identification code	Present	Present
CE-marking	Present	Present

Date Sample Received: Sep 25, 2024

Testing Period: Sep 25, 2024 to Oct 24, 2024

2. Mechanical and Physical Test

As per British Standard on Safety of toys BS EN 71-1: 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	NA
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
4.16	Heavy immobile toys	NA



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Tests Conducted

Clause	Testing items	Assessment
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 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 for children under 36 months	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	
7.1	General	P
7.2	Toys not intended for children under 36 months	NA
7.3	Latex balloons	NA
7.4	Aquatic toys	NA
7.5	Functional toys	NA
7.6	Hazardous sharp functional edges and points	NA
7.7	Projectile toys	NA



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Clause	Testing items	Assessment
7.8	Imitation protective masks and helmets	NA
7.9	Toy kites	NA
7.10	Roller skates, inlineskates and skateboards and certain other ride-on toys	NA
7.11	Toys otherwise intended to be strung across a cradle, cot, or perambulator	NA
7.12	Liquid-filled teethingers	NA
7.13	Percussion caps specifically designed for use in toys	NA
7.14	Acoustics	NA
7.15	Toy bicycles	NA
7.16	Toys intended to bear the mass of a child	NA
7.17	Toys comprising monofilament fibres	NA
7.18	Toy scooters	NA
7.19	Rocking horses and similar toys	NA
7.20	Magnetic/electrical experimental sets	NA
7.21	Toys with electrical cables exceeding 300 mm in length	NA
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months	NA
7.23	Toys intended to be attached to a cradle, cot or perambulator	NA
7.24	Sledges with cords for pulling	NA
7.25	Flying toys	NA
7.26	Improvised projectiles	NA

Abbreviation:

P = Pass

NA = Not Applicable

Below are additional information according to the Toy Safety Directive 2009/48/EC requirement. These information also appears as a note within the BS EN71 but are not standard requirements and not accredited:

Marking

The manufacturer's and importer's name, registered trade name or registered trademark, the address and type, batch, serial or model number or other element allowing their identification shall be indicated on the product itself. In addition, toys or packaging shall also bear the CE-marking.

After checking, it was found that

	Toy	Packaging
Manufacturer's name	Absent	Absent
Manufacturer's address	Absent	Absent
Importer's name	Present	Present
Importer's address	Present	Present
Product identification code	Present	Present
CE-marking	Present	Present

Below is additional information checking according to the UK Toy (Safety) Regulations requirement. The checking is not within accreditation scope.

Marking



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Tests Conducted

The manufacturer's and importer's name, registered trade name or registered trademark, the address and type, batch, serial or model number or other element allowing their identification shall be indicated on the product itself.

After checking, it was found that

	Toy	Packaging
Manufacturer's name	Absent	Absent
Manufacturer's address	Absent	Absent
UK Importer's name	Present	Present
UK Importer's address	Present	Present
Product identification code	Present	Present

With reference to the guidance of using UKCA marking from 1 January 2021 by the Department for Business, Energy and Industrial Strategy published on 1 September 2020.

After checking **UKCA marking**, it was found that

	Toy	Packaging
UKCA marking	Present	Present

Date Sample Received: Sep 25, 2024

Testing Period: Sep 25, 2024 to Oct 24, 2024

3. 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: Sep 25, 2024

Testing Period: Sep 25, 2024 to Oct 24, 2024



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Tests Conducted

4. Flammability Test

As per British Standard on Safety of Toys BS 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: Sep 25, 2024
Testing Period: Sep 25, 2024 to Oct 24, 2024

5. Safety Requirement For Activity Toy

Test Standard: EN71-8: 2018 Safety Of Toys – Part 8: Activity Toys For Domestic Use.

Applicant's Specified

- Age Group For Testing: For ages 3 years and up
- Maximum Weight Of Single User: 45 kg
- Maximum Total Weight: 45 kg

Number Of Samples Tested: One (1) Set.

Clause	Requirement	Result
4.1	General	
4.1.1	Assembly	P
4.1.2	Static Strength	NA
4.1.3	Maximum Height	P
4.1.4	Corners And Edges	P
4.1.5	Protruding Parts	P
4.1.6	Diameter Of Ropes And Other Means Of Suspension	NA
4.1.7	Water Accumulation	P
4.2	Barriers, Handrails And Ladders And Similar Means Of Access To Activity Toys	
4.2.1	Barriers And Handrails Preventing A Child From Falling Down	NA
4.2.2	Ladders And Similar Means Of Access To Activity Toys	P
4.3	Entrapment	
4.3.1	Entrapment Of Head And Neck	P
4.3.2	Entrapment Of Clothing And Hair	P
4.3.3	Entrapment Of Feet	P



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4.3.4	Entrapment Of Fingers	P
4.4	Stability Of Activity Toys Other Than Slides, Swings And Activity Toys With Crossbeams, And See-Saws	
4.4.1	General	NA
4.4.2	Stability Of Activity Toys With A Free Height Of Fall Of 600 mm Or Less	NA
4.4.3	Stability Of Activity Toys With A Free Height Of Fall Of More Than 600 mm	NA
4.5	Slides	
4.5.1	General	P
4.5.2	Stability Of Slides	P
4.5.3	Retaining Sides Of Slides	P
4.5.4	Starting, Sliding And Run-Out Sections On Slides	P
4.6	Swings	
4.6.1	Stability Of Swings And Other Activity Toys With Crossbeams	NA
4.6.2	Static Strength Of Crossbeams, Swing Devices And Suspension Connectors	NA
4.6.3	Swings Intended For Children Under 36 Months	NA
4.6.4	Minimum Clearance Between Adjacent Swing Elements, And Adjacent Structures	NA
4.6.5	Lateral Stability Of Swing Elements	NA
4.6.6	Minimum Clearance Between Swing Elements And The Ground	NA
4.6.7	Suspension Connectors And Swing Devices	NA
4.6.8	Impact, Geometry And Design Of Swing Elements	NA
4.7	See-saws	NA
4.7.1	Stability Of See-saws	NA
4.7.2	Seat/Stand Height	NA
4.7.3	Restraint Of Motion	NA
4.7.4	Pinching And Crushing Fingers And Toes	NA
4.7.5	Hand Supports	NA
4.8	Carousels And Rocking Activity Toys	NA
4.9	Paddling Pools	
4.9.1	Static Strength Of Paddling Pools With Non-Inflatable Walls	NA
4.9.2	Paddling Pools With Inflatable Walls	NA
5	Warnings, Markings, And Instructions	
5.1.1	General	P
5.1.2	Paddling Pools	NA
5.2	Assembly And Installation Instruction	P
5.3	Maintenance	P

Abbreviation: P = Pass; NA = Not Applicable

Date Sample Received: Sep 25, 2024

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Tests Conducted

6. Safety Requirement For Activity Toys

As Per British Standard on Safety of Toys BS EN71-8: 2018 Safety of Toys - Part 8: Activity Toys For Domestic Use.

Applicant's Specified

- Age Group For Testing: For ages 3 years and up
- Maximum Weight Of Single User: 45 kg
- Maximum Total Weight: 45 kg

Number Of Samples Tested: One (1) Set.

Clause	Requirement	Result
4.1	General	
4.1.1	Assembly	P
4.1.2	Static Strength	NA
4.1.3	Maximum Height	P
4.1.4	Corners And Edges	P
4.1.5	Protruding Parts	P
4.1.6	Diameter Of Ropes And Other Means Of Suspension	NA
4.1.7	Water Accumulation	P
4.2	Barriers, Handrails And Ladders And Similar Means Of Access To Activity Toys	
4.2.1	Barriers And Handrails Preventing A Child From Falling Down	NA
4.2.2	Ladders And Similar Means Of Access To Activity Toys	P
4.3	Entrapment	
4.3.1	Entrapment Of Head And Neck	P
4.3.2	Entrapment Of Clothing And Hair	P
4.3.3	Entrapment Of Feet	P
4.3.4	Entrapment Of Fingers	P
4.4	Stability Of Activity Toys Other Than Slides, Swings And Activity Toys With crossbeams, And See-Saws	
4.4.1	General	NA
4.4.2	Stability Of Activity Toys With A Free Height Of Fall Of 600 mm Or Less	NA
4.4.3	Stability Of Activity Toys With A Free Height Of Fall Of More Than 600 mm	NA
4.5	Slides	
4.5.1	General	P
4.5.2	Stability Of Slides	P
4.5.3	Retaining Sides Of Slides	P
4.5.4	Starting, Sliding And Run-Out Sections On Slides	P
4.6	Swings	
4.6.1	Stability Of Swings And Other Activity Toys With Crossbeams	NA
4.6.2	Static Strength Of Crossbeams, Swing Devices And Suspension Connectors	NA



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4.6.3	Swings Intended For Children Under 36 Months	NA
4.6.4	Minimum Clearance Between Adjacent Swing Elements, And Adjacent Structures	NA
4.6.5	Lateral Stability Of Swing Elements	NA
4.6.6	Minimum Clearance Between Swing Elements And The Ground	NA
4.6.7	Suspension Connectors And Swing Devices	NA
4.6.8	Impact, Geometry And Design Of Swing Elements	NA
4.7	See-saws	NA
4.7.1	Stability Of See-saws	NA
4.7.2	Seat/Stand Height	NA
4.7.3	Restraint Of Motion	NA
4.7.4	Pinching And Crushing Fingers And Toes	NA
4.7.5	Hand Supports	NA
4.8	Carousels And Rocking Activity Toys	NA
4.9	Paddling Pools	
4.9.1	Static Strength Of Paddling Pools With Non-Inflatable Walls	NA
4.9.2	Paddling Pools With Inflatable Walls	NA
5	Warnings, Markings, And Instructions	
5.1.1	General	P
5.1.2	Paddling Pools	NA
5.2	Assembly And Installation Instructions	P
5.3	Maintenance	P

Abbreviation: P = Pass; NA = Not Applicable;

Date Sample Received: Sep 25, 2024

Testing Period: Sep 25, 2024 to Oct 24, 2024



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Tests Conducted

7. 19 Toxic Element Migration Test (EN 71-3: 2019+A1: 2021)

(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)	(4)	(5)	(6)		
Aluminium (Al)	ND	ND	ND	ND	ND	ND	300	28130
Antimony (Sb)	ND	ND	ND	ND	ND	ND	10	560
Arsenic (As)	ND	ND	ND	ND	ND	ND	10	47
Barium (Ba)	241	ND	ND	ND	ND	ND	10	18750
Boron (B)	ND	ND	ND	ND	ND	ND	50	15000
Cadmium (Cd)	ND	ND	ND	ND	ND	ND	5	17
Chromium (III) (Cr III)	ND	ND	ND	ND	ND	ND	10	460
Chromium (VI) (Cr VI)	ND	ND	ND	ND	ND	ND	0.025	0.053
Cobalt (Co)	ND	ND	ND	ND	ND	ND	10	130
Copper (Cu)	ND	ND	ND	ND	ND	ND	10	7700
Lead (Pb)	ND	ND	ND	ND	ND	ND	10	23
Manganese (Mn)	ND	ND	ND	ND	ND	ND	10	15000
Mercury (Hg)	ND	ND	ND	ND	ND	ND	10	94
Nickel (Ni)	ND	ND	ND	ND	ND	ND	10	930
Selenium (Se)	ND	ND	ND	ND	ND	ND	10	460
Strontium (Sr)	ND	ND	ND	ND	ND	ND	100	56000
Tin (Sn)	ND	ND	ND	ND	ND	ND	2.5	180000
Organic tin ⁺⁺	ND	ND	ND	ND	ND	ND	5	12
Zinc (Zn)	ND	ND	ND	ND	ND	117	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.

ND = Not detected (less than reporting limit)

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

(B) Categories of various toy materials

Category I: Dry, brittle, powder like or pliable

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).



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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: Sep 25, 2024

Testing Period: Sep 25, 2024 to Nov 04, 2024

8. 19 Toxic Elements Migration Test (BS EN 71-3: 2019+A1: 2021)

(A) Test Result

As per BS 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, 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)	(4)	(5)	(6)		
Aluminium (Al)	ND	ND	ND	ND	ND	ND	300	28130
Antimony (Sb)	ND	ND	ND	ND	ND	ND	10	560
Arsenic (As)	ND	ND	ND	ND	ND	ND	10	47
Barium (Ba)	241	ND	ND	ND	ND	ND	10	18750
Boron (B)	ND	ND	ND	ND	ND	ND	50	15000
Cadmium (Cd)	ND	ND	ND	ND	ND	ND	5	17
Chromium (III) (Cr III)	ND	ND	ND	ND	ND	ND	10	460
Chromium (VI) (Cr VI)	ND	ND	ND	ND	ND	ND	0.025	0.053
Cobalt (Co)	ND	ND	ND	ND	ND	ND	10	130
Copper (Cu)	ND	ND	ND	ND	ND	ND	10	7700
Lead (Pb)	ND	ND	ND	ND	ND	ND	10	23
Manganese (Mn)	ND	ND	ND	ND	ND	ND	10	15000
Mercury (Hg)	ND	ND	ND	ND	ND	ND	10	94
Nickel (Ni)	ND	ND	ND	ND	ND	ND	10	930
Selenium (Se)	ND	ND	ND	ND	ND	ND	10	460
Strontium (Sr)	ND	ND	ND	ND	ND	ND	100	56000
Tin (Sn)	ND	ND	ND	ND	ND	ND	2.5	180000
Organic tin ++	ND	ND	ND	ND	ND	ND	5	12
Zinc (Zn)	ND	ND	ND	ND	ND	117	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.



Test Report

Number: SHAH01741437

Tests Conducted

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

(B) Categories of various toy materials

Category I: Dry, brittle, powder like or pliable

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: Sep 25, 2024

Testing Period: Sep 25, 2024 to Nov 04, 2024

9. Phthalate Content (REACH Regulation (EC) No 1907/2006 Annex XVII Entry 51 and Entry 52)

With reference to ISO 8124-6: 2018, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

I. Annex XVII Entry 51

Test Item	CAS No.	Result (%w/w)					Reporting Limit (%w/w)	Limit (%w/w)
		(1)	(2)	(3)	(4)	(5)		
Dibutyl phthalate (DBP)	84-74-2	ND	ND	ND	ND	ND	0.005	--
Diethyl hexyl phthalate (DEHP)	117-81-7	ND	ND	ND	ND	ND	0.005	--
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	ND	ND	ND	0.005	--
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	ND	ND	0.005	--
Sum of DBP, DEHP, BBP and DIBP	--	ND	ND	ND	ND	ND	--	0.1

Test Item	CAS No.	Result (%w/w)	Reporting Limit (%w/w)	Limit (%w/w)
		(6)		
Dibutyl phthalate (DBP)	84-74-2	ND	0.005	--
Diethyl hexyl phthalate (DEHP)	117-81-7	ND	0.005	--
Benzyl butyl phthalate (BBP)	85-68-7	ND	0.005	--
Diisobutyl phthalate (DIBP)	84-69-5	ND	0.005	--
Sum of DBP, DEHP, BBP and DIBP	--	ND	--	0.1

The above limit was quoted according to Annex XVII Entry 51 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009 & Amendment Commission Regulation (EU) 2018/2005 for Phthalate content in articles.



Test Report

Number: SHAH01741437

Tests Conducted
II. Annex XVII Entry 52

Test Item	CAS No.	Result (%w/w)					Reporting Limit (%w/w)	Limit (%w/w)
		(1)	(2)	(3)	(4)	(5)		
Di-n-octyl phthalate (DnOP)	117-84-0	ND	ND	ND	ND	ND	0.005	--
Diisononyl phthalate (DINP)	28553-12-0/ 68515-48-0	ND	ND	ND	ND	ND	0.005	--
Diisodecyl phthalate (DIDP)	26761-40-0/ 68515-49-1	ND	ND	ND	ND	ND	0.005	--
Sum of DINP, DNOP and DIDP	--	ND	ND	ND	ND	ND	--	0.1

Test Item	CAS No.	Result (%w/w)	Reporting Limit (%w/w)	Limit (%w/w)
		(6)		
Di-n-octyl phthalate (DnOP)	117-84-0	ND	0.005	--
Diisononyl phthalate (DINP)	28553-12-0/ 68515-48-0	ND	0.005	--
Diisodecyl phthalate (DIDP)	26761-40-0/ 68515-49-1	ND	0.005	--
Sum of DINP, DNOP and DIDP	--	ND	--	0.1

The above limit was quoted according to Annex XVII Entry 52 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009 for Phthalate content in toys and childcare articles.

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

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

Date Sample Received: Sep 25, 2024
Testing Period: Sep 25, 2024 to Oct 31, 2024



Test Report

Number: SHAH01741437

Tests Conducted

10. Cadmium (Cd) Content (EU REACH ANNEX XVII Entry 23)

With reference to methods IEC 62321-5:2013, acid digestion method was used and total Cadmium content was determined by Inductively Coupled Argon Plasma Spectrometry.

Tested Component	Result in %
(1)	ND
(2)	ND
(3)	ND
(4)	ND
(5)	ND
(6)	ND

Requirement:	
Category	Limit (%)
Painted article	0.1
Plastic	0.01
Metal parts of jewellery & hair accessories	0.01

Remark: ND = Not detected (<0.0005%)

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

Date Sample Received: Sep 25, 2024

Testing Period: Sep 25, 2024 to Nov 04, 2024

11. Polycyclic Aromatic Hydrocarbons (PAHs) Content (REACH Regulation (EC) No 1907/2006 Annex XVII Entry 50)

With reference to AfPS GS 2019: 01 PAK, by solvent extraction and determined by Gas Chromatographic - Mass Spectrometry (GC/MS).

Toy for children/children care articles

Test Item	Result (mg/kg)						Detection Limit (mg/kg)	Limit (mg/kg)
	(1)	(2)	(3)	(4)	(5)	(6)		
Benzo(a)pyrene	ND	ND	ND	ND	ND	ND	0.2	0.5
Benzo(e)pyrene	ND	ND	ND	ND	ND	ND	0.2	0.5
Benzo(a)anthracene	ND	ND	ND	ND	ND	ND	0.2	0.5
Chrysene	ND	ND	ND	ND	ND	ND	0.2	0.5
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	ND	0.2	0.5
Benzo(j)fluoranthene	ND	ND	ND	ND	ND	ND	0.2	0.5
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	ND	0.2	0.5
Dibenzo(a,h)anthracene	ND	ND	ND	ND	ND	ND	0.2	0.5

The above limit was quoted according to Annex XVII Entry 50 of the REACH Regulation (EC) No.1907/2006 & amendment (EU) No. 1272/2013 for Polycyclic Aromatic Hydrocarbons (PAHs).

Remark : ND = Not detected



Test Report

Number: SHAH01741437

Tests Conducted

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

Date Sample Received: Sep 25, 2024

Testing Period: Sep 25, 2024 to Nov 04, 2024

12. Polycyclic Aromatic Hydrocarbons (PAHs) Content

As Per AfPS GS 2019:01 PAK, by solvent extraction and determined by Gas Chromatography – Mass Spectrometer (GC/MS).

(I) Test Results:

Test Item	CAS No.	Result (in mg/kg)					
		(1)	(2)	(3)	(4)	(5)	(6)
1. Phenanthrene	85-01-8	ND	ND	ND	ND	ND	0.3
2. Anthracene	120-12-7	ND	ND	ND	ND	ND	ND
3. Fluoranthene	206-44-0	ND	ND	ND	ND	ND	ND
4. Pyrene	129-00-0	ND	ND	ND	ND	ND	ND
Sum (4 PAHs):	--	ND	ND	ND	ND	ND	0.3
5. Naphthalene	91-20-3	ND	ND	ND	ND	ND	0.3
6. Benzo(a)Anthracene	56-55-3	ND	ND	ND	ND	ND	ND
7. Chrysene	218-01-9	ND	ND	ND	ND	ND	ND
8. Indeno(1,2,3-cd)Pyrene	193-39-5	ND	ND	ND	ND	ND	ND
9. Benzo(b)Fluoranthene	205-99-2	ND	ND	ND	ND	ND	ND
10. Benzo(k)Fluoranthene	207-08-9	ND	ND	ND	ND	ND	ND
11. Benzo(a)Pyrene	50-32-8	ND	ND	ND	ND	ND	ND
12. Dibenzo(a,h)Anthracene	53-70-3	ND	ND	ND	ND	ND	ND
13. Benzo(g,h,i)Perylene	191-24-2	ND	ND	ND	ND	ND	ND
14. Benzo(e)Pyrene	192-97-2	ND	ND	ND	ND	ND	ND
15. Benzo(j)Fluoranthene	205-82-3	ND	ND	ND	ND	ND	ND
Sum (15 PAHs):	--	ND	ND	ND	ND	ND	0.6
Classification of Samples: Category		3a	1	3a	1	3a	3a

ND= Not detected (Less than reporting limit)

Reporting limit = 0.2 mg/kg



Test Report

Number: SHAH01741437

Tests Conducted
(II) Limits for PAHs in Products:

Parameter	Category 1	Category 2		Category 3	
--	Materials intended to be placed in the mouth, or materials coming into long-term contact with skin (more than 30s) during the intended use - in toys according to Directive 2009/48/EC or -for the use by children up to 3 years of age	Materials that are not covered by Category 1, with long-term skin contact (longer than 30s) or repeated short-term skin contact if used as intended or foreseeable 2a. used by children 2b. other consumer products		Materials that are not covered by Category 1 or 2, with short-term skin contact (up to 30 s) when used as intended or foreseeable 3a. used by children 3b. other consumer products	
		2a	2b	3a	3b
Phenanthrene	--	--	--	--	--
Anthracene	--	--	--	--	--
Fluoranthene	--	--	--	--	--
Pyrene	--	--	--	--	--
Sum (4 PAHs):	<1	<5	<10	<20	<50
Naphthalene	<1	<2	<2	<10	<10
Benzo(a)Anthracene	<0.2	<0.2	<0.5	<0.5	<1
Chrysene	<0.2	<0.2	<0.5	<0.5	<1
Indeno(1,2,3-cd)Pyrene	<0.2	<0.2	<0.5	<0.5	<1
Benzo(b)Fluoranthene	<0.2	<0.2	<0.5	<0.5	<1
Benzo(k)Fluoranthene	<0.2	<0.2	<0.5	<0.5	<1
Benzo(a)Pyrene	<0.2	<0.2	<0.5	<0.5	<1
Dibenzo(a,h)Anthracene	<0.2	<0.2	<0.5	<0.5	<1
Benzo(g,h,i)Perylene	<0.2	<0.2	<0.5	<0.5	<1
Benzo(e)Pyrene	<0.2	<0.2	<0.5	<0.5	<1
Benzo(j)Fluoranthene	<0.2	<0.2	< 0.5	<0.5	<1
Sum (15 PAHs):	<1	<5	<10	<20	<50

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

Date Sample Received: Sep 25, 2024
Testing Period: Sep 25, 2024 to Nov 04, 2024



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Tests Conducted

13. Detection of Amines Derived from Azocolourants and Azodyes

By Gas Chromatographic - Mass Spectrometric (GC-MS) And High Performance Liquid Chromatographic (HPLC) Analysis.

Test Method: EN ISO 14362-1: 2017 for Textile Material
EN ISO 17234-1: 2015 for Leather Material
EN ISO 14362-3: 2017 & EN ISO 17234-2: 2011 for p-Aminoazobenzene

	<u>Forbidden</u>	<u>Cas No.</u>	<u>Result (ppm)</u>
1.	4-Aminodiphenyl	92-67-1	NA
2.	Benzidine	92-87-5	NA
3.	4-Chloro-o-Toluidine	95-69-2	NA
4.	2-Naphthylamine	91-59-8	NA
5.	o-Aminoazotoluene	97-56-3	NA
6.	2-Amino-4-Nitrotoluene	99-55-8	NA
7.	p-Chloroaniline	106-47-8	NA
8.	2,4-Diaminoanisole	615-05-4	NA
9.	4,4'-Diaminodiphenylmethane	101-77-9	NA
10.	3,3'-Dichlorobenzidine	91-94-1	NA
11.	3,3'-Dimethoxybenzidine	119-90-4	NA
12.	3,3'-Dimethylbenzidine	119-93-7	NA
13.	3,3'-Dimethyl-4,4'diaminodiphenylmethane	838-88-0	NA
14.	p-Cresidine	120-71-8	NA
15.	4,4'-Methylene-Bis(2-Chloroaniline)	101-14-4	NA
16.	4,4'-Oxydianiline	101-80-4	NA
17.	4,4'-Thiodianiline	139-65-1	NA
18.	o-Toluidine	95-53-4	NA
19.	2,4-Toluylenediamine	95-80-7	NA
20.	2,4,5-Trimethylaniline	137-17-7	NA
21.	o-Anisidine	90-04-0	NA
22.	p-Aminoazobenzene	60-09-3	NA

Remark: NA = Not Applicable

No suitable material per client's requirement was found on the submitted sample.

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

Date Sample Received: Sep 25, 2024

Testing Period: Sep 25, 2024 to Oct 17, 2024



Test Report

Number: SHAH01741437

Tests Conducted

14. STANDARD CONSUMER SAFETY PERFORMANCE SPECIFICATION FOR HOME PLAYGROUND EQUIPMENT

With reference to ASTM F1148-24 Standard Consumer Safety Performance Specification for Home Playground Equipment, the submitted sample was subjected to the following tests:

Number of Sample Tested: One (1) Set

Initial inspection: No any damage was found

Applicant's Specification:

-Age grade for testing: For ages 3 years and up

-Maximum load capacity of single user: 45kg

-Maximum total load capacity:45kg

Executive Summary:

Clause	Test items	Verdict
1	Scope.	-
2	Referenced Documents.	-
3	Terminology	-
4	Materials and Manufacture	-
4.1	General	#1
4.1.3	Lead in Paint	P
5	General Requirements	-
5.1	Applicable to All Home Playground Equipment	NA
5.2	Small part	NA
6	Performance Requirements	-
6.1	Head and Neck Entrapment	P
6.2	Acute Angles	P
6.3	Protrusions	P
6.4	Edges, Points, and Surfaces	P
6.5	Open Tubing	P
6.6	Crush and Shear Points	P
6.7	Holes and Slots	NA
6.8	Hardware	P
6.9	Hooks	NA
6.10	Hand Support: Hand Gripping/Grasping Components	P
7	Requirements for Access	P
7.1	Rung Ladders, Stepladders and Stairways	P
7.2	Handrails	P
7.3	Guardrails and Protective Barriers	NA
8	Equipment	-
8.1	Swings	NA
8.1.1	To-fro	NA
8.1.2	Hangers	NA
8.1.3	Minimum Ground Clearance	NA
8.1.4	Suspended Swinging Elements	NA
8.1.5	Lawn Swings	NA
8.1.6	Pendulum See-Saws	NA
8.1.7	Toddler Swings	NA
8.1.8	Swing Set Stability	NA
8.1.9	Spacing Between Adjacent Swing Elements	NA
8.1.10	Spacing Between Swing Elements and Stationary Frame Members	NA
8.1.11	Suspended Swinging Element Impact Attenuation Testing	NA
8.2	Slides	-
8.2.1	Slide Requirements	P



Test Report

Number: SHAH01741437

Tests Conducted

Clause	Test items	Verdict
8.2.2	Stability of Free-Standing Slides	P
8.2.3	Roller Slides	NA
8.3	Merry-Go-Rounds	NA
8.4	Ropes	NA
9	Equipment Layout	-
9.1	Play Structure Use Zone	#2
10	Installation	-
10.1	Installation Instructions and Information	P
11	Structural Integrity	-
11.1.1	Handholds, Footholds, and Horizontal Supporting Members	P
11.1.2	Top Support Bar	NA
11.1.3	Individual Suspended Units	NA
11.1.4	Slides	P
11.1.5	Rockers	NA
11.1.6	Merry-Go-Rounds	NA
11.1.7	Climbing Towers/Jungle Gyms	NA
11.1.8	Platforms	NA
11.1.9	Climbing Components	P
12	Maintenance Instructions	P
13	Labeling and signage	P
14	Information	-
14.1	Information on Manufacturer or Distributor	P
14.2	Information on Playground Surfacing Materials	P
14.3	Operating Instructions	P
14.4	Lawn swings warning	NA
15	Keywords	-

Abbreviation: P=Pass; NA=Not Applicable;

Remark:

#1.The assessment of materials durability constructed was not verified in an outdoor setting. However, it's manufacturer responsibility to ensure the compliance during designing, treatment process and manufacturing.

#2.The compliance with ASTM F1292 was not verified because the Play Structure Use Zone could not be evaluated in laboratory environment. It would be evaluated at where the equipment is actually assembled on. However, a specific surfacing guideline which based on "SECTION 4 OF the United States Consumer Product Safety Commission's (USCPSC) Outdoor Home Playground Safety Handbook" was included in the instruction manual to specifying the selection and assembly guide for protective surfacing.

Date Sample Received: Sep 25, 2024

Testing Period: Sep 25, 2024 to Oct 24, 2024



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Tests Conducted

15. Total Lead (Pb) Content in Surface Coating

As per standard operating procedure for determining Lead (Pb) in paint and other similar surface coatings (April 26, 2009), test method CPSC-CH-E1003-09.1 was used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

<u>Tested Component</u>	<u>Result (ppm)</u>	<u>Limit (ppm)</u>
(1)	ND	90

The limit was quoted according to U.S. Consumer Product Safety Improvement Act 2008 title I, section 101 for total Lead content in surface coating.

Remark: ppm = Parts per million = mg/kg
Detection Limit = 20 mg/kg
ND=Not Detected

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

Date Sample Received: Sep 25, 2024
Testing Period: Sep 25, 2024 to Oct 16, 2024

16. Total Lead (Pb) Content In Non-Surface Coating Materials (Substrate)

As per standard operating procedures for determining total Lead (Pb) in children's products, test method(s) CPSC-CH-E1002-08.3 and/or CPSC-CH-E1001-08.3 was/were used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

<u>Tested Component</u>	<u>Result (ppm)</u>	<u>Limit (ppm)</u>
(2+3+4)	ND	100
(5)	ND	100
(6)	ND	100

The limit was quoted according to U.S. Consumer Product Safety Improvement Act 2008 title I, section 101 for total Lead content in non-surface coating materials (substrate).

Remark: ppm = Parts per million = mg/kg
Detection Limit = 20 mg/kg
ND=Not Detected

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

Date Sample Received: Sep 25, 2024
Testing Period: Sep 25, 2024 to Nov 04, 2024



Test Report

Number: SHAH01741437

Tests Conducted

17. Phthalate Content

With reference to CPSC-CH-C1001-09.4, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

<u>Test item</u>	<u>Result (%)</u>						<u>Limit (%) (Max.)</u>
	(1)	(2)	(3)	(4)	(5)	(6)	
Dibutyl phthalate (DBP)	ND	ND	ND	ND	ND	ND	0.1
Di-(2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	ND	ND	ND	0.1
Benzyl butyl phthalate (BBP)	ND	ND	ND	ND	ND	ND	0.1
Diisononyl phthalate (DINP)	ND	ND	ND	ND	ND	ND	0.1
Diisobutyl phthalate (DIBP)	ND	ND	ND	ND	ND	ND	0.1
Di-n-pentyl phthalate (DPENP)	ND	ND	ND	ND	ND	ND	0.1
Di-n-hexyl phthalate (DHEXP)	ND	ND	ND	ND	ND	ND	0.1
Dicyclohexyl phthalate (DCHP)	ND	ND	ND	ND	ND	ND	0.1

The above limit was quoted according to 16 CFR part 1307 approved by U.S. Consumer Product Safety Commission (CPSC) for prohibition of children's toys and child care articles containing specified phthalates.

Remark: ND = Not Detected

Detection Limit = 0.01%

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

Date Sample Received: Sep 25, 2024

Testing Period: Sep 25, 2024 to Oct 31, 2024

18. Total Lead (Pb) Content

As per U.S. Code of Federal Regulations title 16 part 1303, acid digestion method was used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

<u>Tested component</u>	<u>Result (%)</u>	<u>Limit (%)</u>
(1)	ND	0.009

The limit was quoted according to CPSC Regulation CFR title 16 Part 1303 for Lead (Pb) content.

Remark: ND = Not Detected

Detection Limit = 0.002%

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

Date Sample Received: Sep 25, 2024

Testing Period: Sep 25, 2024 to Oct 16, 2024



Test Report

Number: SHAH01741437

Tests Conducted

Components List:

- (1) Gray coating on metal
- (2) Green plastic (children's slide)
- (3) Black plastic plug
- (4) Yellow-green plastic (pedal)
- (5) White plastic (on nut)
- (6) Black soft plastic (sealing ring)



Picture 1: Submitted Sample



Picture 2: Submitted Sample



Picture 3: Submitted Sample

End Of Report

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