



Test Report

No.:SPF24033630

Date: Apr. 10, 2024

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SHANTOU BEST RESOURCES TOYS CO., LTD.

SHANTOU CITY CHENGHAI DISTRICT GUANGYI STREET GUANGFENG INDUSTRIAL ZONE

The following samples were submitted and identified by/on behalf of client as:

Name of product/item: Toy letter

Item No.: 188-201Y, 188-202Y, 188-203Y, 188-204Y, 188-205Y, 188-206Y, 188-207Y, 188-208Y

Requested age grading: 3+

Age group applied in testing: 3+

Sample received date: Mar. 30, 2024

Testing period: From Mar. 30, 2024 to Apr. 08, 2024

Test conclusion:

Summary

BS EN 71-1: 2014 + A1:2018 - Mechanical and Physical Properties

BS EN 71-2: 2020 - Flammability

BS EN 71-3: 2019+A1:2021- Migration of certain elements

Result

Pass

Pass

Pass

Tested by : Ava

Chen WenHan, Ava

Inspected by : Wendy

Zhang WenXia, Wendy

Approved by : Jee

Zhang Feng, Jee

Lab Manager



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Mechanical and Physical Properties:

Section	Description	Result
4	General requirements	
4.1	Material cleanliness.....	P
4.2	Assembly.....	NA
4.3	Flexible plastic sheet.....	NA
4.4	Toy bags.....	NA
4.5	Glass.....	NA
4.6	Expanding Material.....	NA
4.7	Edges.....	P
4.8	Points and metallic wires.....	P
4.9	Protruding parts.....	P
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	Projectiles 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 ball.....	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 requirement.....	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

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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 ball.....	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	P
7	Warnings and instructions for use	
7.1	General.....	P
7.2	Toys not intended for children under 36 months.....	P
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	Projectiles.....	NA
7.8	Imitation protective masks and helmets.....	NA
7.9	Toy kites.....	NA
7.10	Roller skates, inline skates, skateboards and certain other ride-on toys.....	NA
7.11	Toy intended to be strung across a cradle, cot, or perambulator.....	NA
7.12	Liquid-filled teething.....	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 child.....	NA
7.17	Toys comprising monofilament fibres.....	NA
7.18	Toy scooter.....	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

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Note:

P = Pass; NA = Not applicable; NC = Not conducted; F=Fail.

According to the Directive The Toys (Safety) Regulations 2011, toys made available on the market must meet the following requirements:

- (1) The UKCA marking should be at least 5mm in height - unless a different minimum dimension is specified in the relevant legislation. The UKCA marking should be easily visible, legible (from 1 January 2023 it must be permanently attached).
- (2) To reduce or enlarge the size of UKCA marking, the letters forming the UKCA marking must be in proportion to the official version.
- (3) UK importer shall label company's details, including company's name and a contact address after 1 January 2021. Until 31 December 2022, UK importer can provide these details on the accompanying documentation rather than on the good itself.

Flammability:

Section	Description	Result
4	Requirements	
4.1	General requirements.....	P
4.2	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

Note:

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Migration of Certain Elements analysis:

With reference to BS EN 71-3:2019+A1:2021, by Inductively Coupled Plasma-Optical Emission Spectrometry (ICP-OES), Ion Chromatography-Ultraviolet (IC-UV) analysis.

Category III: Scraped-off toy material

Sample No. Item(s)	Result (mg/kg)					Report limit (mg/kg)	Limit (mg/kg)
	1	2	3	4	5		
Soluble Lead (Pb)	ND	ND	ND	ND	ND	5	23
Soluble Cadmium (Cd)	ND	ND	ND	ND	ND	2	17
Soluble Chromium (Cr) ^[1]	ND	ND	ND	ND	ND	0.03	---
Soluble Chromium (III) ^[2]	ND	ND	ND	ND	ND	---	460
Soluble Chromium (VI) ^[3]	ND	ND	ND	ND	ND	0.02	0.053
Soluble Mercury (Hg)	ND	ND	ND	ND	ND	5	94
Soluble Arsenic (As)	ND	ND	ND	ND	ND	5	47
Soluble Selenium (Se)	ND	ND	ND	ND	ND	10	460
Soluble Antimony (Sb)	ND	ND	ND	ND	ND	10	560
Soluble Barium (Ba)	ND	ND	ND	ND	ND	100	18750
Soluble Aluminium (Al)	ND	ND	ND	ND	ND	100	28130
Soluble Boron (B)	ND	ND	ND	ND	ND	100	15000
Soluble Cobalt (Co)	ND	ND	ND	ND	ND	10	130
Soluble Copper (Cu)	ND	ND	ND	ND	ND	100	7700
Soluble Manganese (Mn)	ND	ND	ND	ND	ND	100	15000
Soluble Nickel (Ni)	ND	ND	ND	ND	ND	50	930
Soluble Strontium (Sr)	ND	ND	ND	ND	ND	100	56000
Soluble Tin (Sn)	ND	ND	ND	ND	ND	2.5	180000
Soluble Organic tin ^[4]	<10	<10	<10	<10	<10	---	12
Soluble Zinc (Zn)	ND	ND	ND	ND	ND	100	46000

Tested component(s):

Code	Specimen name	Code	Specimen name
1	Orange plastic	4	Yellow plastic
2	Blue plastic	5	White coating (weight:30.2mg)
3	Red plastic	/	/

Note:

ND = Not detected (less than report limit);

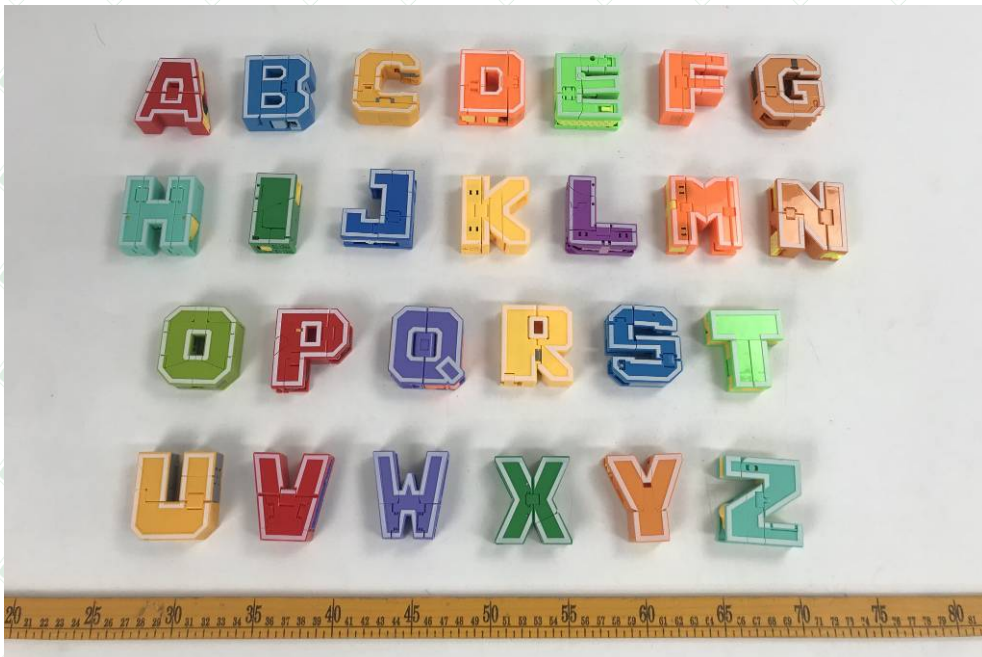
mg/kg = ppm = part per million.

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- (1) As specified by applicant, to test content in the selected materials of the submitted samples. The test results are only responsible for the submitted sample.
- (2) "[1]": Soluble Chromium is not restricted by BS EN 71-3, results shown only for reference.
- (3) "[2]": $C_{Cr(III)} = C_{Cr(total)} - C_{Cr(VI)}$.
- (4) "[3]": Chromium (VI) only for IC-UV.
- (5) "[4]": If soluble tin content exceeded the screening limits of organic tin content, further confirmation test of Organic tin need to be performed. The migration of organic tin shall be calculated by adding the migration values expressed as tributyltin (TBT) for all the single organic tin compounds.
- (6) The toy material samples with sample weight less than 100 mg were assumed to be 100 mg in calculation. Actual weight of sample(s) used for analysis which are less than 100 mg.

Sample photo(s):



End of Report

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