

**Test Report**

Number: SHAH01418886

Applicant: CAOXIAN ZHENG FANG ARTWARE CO.,LTD  
GUYINGJI TOWN CAO COUNTY SHANDONG  
CHINA.  
Attn: LI DALEI

Date: 12 Jan, 2022

Sample Description:

One(1) group of submitted sample said to be :  
Item Name : SHELF  
Item No. : ZF004

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 Excluding 7. Warnings, markings and instructions for use	Pass
Submitted Sample	EN71-2: 2020 Flammability Test	Pass
(1)-(7)	EN 71-3:2019+A1:2021 on migration of certain elements	Pass

Remark:

The submitted sample was not believed to be covered all safety evaluation according to the test of EN 71-1. It is recommended that the product should further tested according to the standard EN 71-8.

To be continued

Authorized By:  
Intertek Testing Services Ltd. Zhejiang



Peter Chen  
General Manager



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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	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	P#
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



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Clause	Testing Items	Assessment
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

# = As the applicant's request, 7. Warnings, markings and instructions for use was not assessed.

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	Absent	Absent
Importer's address	Absent	Absent
Product identification code	Absent	Absent
CE-marking	Absent	Absent

Date Sample Received: Dec 23, 2021

Testing Period: Dec 23, 2021 to Jan 04, 2022



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**2. 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

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Testing Period: Dec 23, 2021 to Jan 04, 2022

**3.19 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)	(4)		
Aluminium (Al)	<300	<300	<300	<300	300	28130
Antimony (Sb)	<10	<10	<10	<10	10	560
Arsenic (As)	<10	<10	<10	<10	10	47
Barium (Ba)	<10	<10	<10	<10	10	18750
Boron (B)	<50	<50	<50	<50	50	15000
Cadmium (Cd)	<5	<5	<5	<5	5	17
Chromium (III) (Cr III)	<10	<10	<10	<10	10	460
Chromium (VI) (Cr VI)	<0.025#	<0.025#	<0.025#	<0.025#	0.025	0.053
Cobalt (Co)	<10	<10	<10	<10	10	130
Copper (Cu)	<10	<10	<10	<10	10	7700
Lead (Pb)	<10	<10	<10	<10	10	23
Manganese (Mn)	<10	<10	<10	<10	10	15000
Mercury (Hg)	<10	<10	<10	<10	10	94
Nickel (Ni)	<10	<10	<10	<10	10	930
Selenium (Se)	<10	<10	<10	<10	10	460
Strontium (Sr)	<100	<100	<100	<100	100	56000



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Tin (Sn)	<2.5	<2.5	<2.5	<2.5	2.5	180000
Organic tin **	<5	<5	<5	<5	5	12
Zinc (Zn)	<100	<100	<100	<100	100	46000

Element	Result (mg/kg)			Reporting Limit (mg/kg)	Limit (mg/kg)
	(5)	(6)	(7)		
Aluminium (Al)	<300	<300	<300	300	28130
Antimony (Sb)	<10	<10	<10	10	560
Arsenic (As)	<10	<10	<10	10	47
Barium (Ba)	<10	<10	27	10	18750
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Tin (Sn)	<2.5	<2.5	<2.5	2.5	180000
Organic tin **	<5	<5	<5	5	12
Zinc (Zn)	<100	<100	<100	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.

# = Confirmation of Chromium (VI) test was performed on the tested component. And the reported value of migration of Chromium (III) = migration value of total Chromium – migration value of Chromium(VI).

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

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).



## Test Report

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Tests Conducted  
Date Sample Received: Dec 23, 2021  
Testing Period: Dec 23, 2021 to Jan 10, 2022

### Components List:

Tested components:

- (1) Black plastic on blue rope
- (2) Light brown plastic stopper
- (3) Blue soft plastic on white rope
- (4) Blue fabric rope
- (5) White fabric rope
- (6) Plywood
- (7) Wood



Submitted sample

\*\*\*\*\*  
End of report

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