



中国认可  
国际互认  
检测  
TESTING  
CNAS L5950

# Test Report

No.:SPF20032626

Date: Jun. 30, 2020

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XINZHAN TOYS FACTORY  
CHENGHAI DISTRICT, SHANTOU CITY, GUANGDONG PROVINCE, CHINA

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

Name of product/item : TOYS SERIES

Item No. : XZ013, XZ013A, XZ013D, XZ014, XZ014A, XZ014D, LK10, SK08, FF11, FF12, FF13, FF14, FF15, FF16, FF18, LL30, PY255, PY255A, PY255D, S000

Requested age grading : 3+

Age group applied in testing: 3+

Sample received date: Jun. 17, 2020

Testing period: From Jun. 17, 2020 to Jun. 30, 2020

Test conclusion:

Summary

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

EN 71-2: 2011 + A1:2014 - Flammability

EN 71-3: 2019 - Migration of certain elements

Result

Pass

Pass

Pass

Tested by : Liu XiaoYu  
Liu XiaoYu, Liuyu

Inspected by : Zhang WenXia, Wendy  
Zhang WenXia, Wendy

Approved by : Zhang Feng, 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.....	P
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	NA
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	P
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 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 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:

According to Directive 2009/48/EC, toys made available on the market must meet the following requirements:

- (1) Toys must bear the CE marking, and the CE marking must be affixed visibly, legibly and indelibly to the toy, to an affixed label or to the packaging. The CE marking must be at least 5 mm high.
- (2) The manufacturer's name, registered trade name or registered trade mark and the address at which the manufacturer can be contacted must be indicated on the toy or, where that is not possible, on its packaging or in a document accompanying the toy. This requirement applies also to the name and address etc. of any importer.
- (3) Toys must 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.
- (4) The toy should be accompanied by instructions and safety information in a language or languages easily understood by consumers, as determined by the Member State concerned.
- (5) P = Pass
- (6) F = Fail
- (7) NA = Not applicable
- (8) NC = Not conducted (According to customer requirement, no evaluation of this clause)

### Flammability:

Section	Description	Result
4	Requirements	
4.1	General .....	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 with a piled or textile surface.....	NA

### Note:

- (1) P = Pass
- (2) F = Fail
- (3) NA = Not applicable
- (4) NC = Not conducted (According to customer requirement, no evaluation of this clause)

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Migration of Certain Elements analysis:

With reference to EN 71-3:2019, 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 Aluminium (Al)	ND.	ND.	ND.	ND.	ND.	50	28130 <sup>[5]</sup>
Soluble Antimony (Sb)	ND.	ND.	ND.	ND.	ND.	5	560
Soluble Arsenic (As)	ND.	ND.	ND.	ND.	ND.	5	47
Soluble Barium (Ba)	ND.	ND.	ND.	ND.	ND.	50	18750
Soluble Boron (B)	ND.	ND.	ND.	ND.	ND.	50	15000
Soluble Cadmium (Cd)	ND.	ND.	ND.	ND.	ND.	2	17
Soluble Chromium (Cr) <sup>[1]</sup>	ND.	ND.	ND.	ND.	ND.	0.03	---
Soluble Chromium (III) <sup>[2]</sup>	ND.	ND.	ND.	ND.	ND.	---	460
Soluble Chromium (VI) <sup>[3]</sup>	ND.	ND.	ND.	ND.	ND.	0.02	0.053
Soluble Cobalt (Co)	ND.	ND.	ND.	ND.	ND.	5	130
Soluble Copper (Cu)	ND.	ND.	ND.	ND.	ND.	50	7700
Soluble Lead (Pb)	ND.	ND.	ND.	ND.	ND.	5	23
Soluble Manganese (Mn)	ND.	ND.	ND.	ND.	ND.	50	15000
Soluble Mercury (Hg)	ND.	ND.	ND.	ND.	ND.	5	94
Soluble Nickel (Ni)	ND.	ND.	ND.	ND.	ND.	5	930
Soluble Selenium (Se)	ND.	ND.	ND.	ND.	ND.	5	460
Soluble Strontium (Sr)	ND.	ND.	ND.	ND.	ND.	50	56000
Soluble Tin (Sn) <sup>[4]</sup>	ND.	ND.	ND.	ND.	ND.	2.5	180000
Soluble Organic tin	ND.	ND.	ND.	ND.	ND.	---	12
Soluble Zinc (Zn)	ND.	ND.	ND.	ND.	ND.	50	46000

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Sample No. Item(s)	Result (mg/kg)					Report limit (mg/kg)	Limit (mg/kg)
	6	7	8	9	10		
Soluble Aluminium (Al)	ND.	ND.	ND.	ND.	ND.	50	28130 <sup>[5]</sup>
Soluble Antimony (Sb)	ND.	ND.	ND.	ND.	ND.	5	560
Soluble Arsenic (As)	ND.	ND.	ND.	ND.	ND.	5	47
Soluble Barium (Ba)	ND.	ND.	ND.	ND.	ND.	50	18750
Soluble Boron (B)	ND.	ND.	ND.	ND.	ND.	50	15000
Soluble Cadmium (Cd)	ND.	ND.	ND.	ND.	ND.	2	17
Soluble Chromium (Cr) <sup>[1]</sup>	ND.	ND.	ND.	ND.	ND.	0.03	---
Soluble Chromium (III) <sup>[2]</sup>	ND.	ND.	ND.	ND.	ND.	---	460
Soluble Chromium (VI) <sup>[3]</sup>	ND.	ND.	ND.	ND.	ND.	0.02	0.053
Soluble Cobalt (Co)	ND.	ND.	ND.	ND.	ND.	5	130
Soluble Copper (Cu)	ND.	ND.	266	260	ND.	50	7700
Soluble Lead (Pb)	ND.	ND.	ND.	ND.	ND.	5	23
Soluble Manganese (Mn)	ND.	ND.	ND.	ND.	ND.	50	15000
Soluble Mercury (Hg)	ND.	ND.	ND.	ND.	ND.	5	94
Soluble Nickel (Ni)	ND.	ND.	ND.	ND.	ND.	5	930
Soluble Selenium (Se)	ND.	ND.	ND.	ND.	ND.	5	460
Soluble Strontium (Sr)	ND.	ND.	ND.	ND.	ND.	50	56000
Soluble Tin (Sn) <sup>[4]</sup>	ND.	ND.	ND.	ND.	ND.	2.5	180000
Soluble Organic tin	ND.	ND.	ND.	ND.	ND.	---	12
Soluble Zinc (Zn)	ND.	ND.	ND.	ND.	ND.	50	46000

## Tested component(s):

Code	Specimen name	Code	Specimen name
1	White plastic (shell)	6	Green foam
2	Black plastic (switch) (weight: 46.4mg)	7	Black foam
3	Light red foam	8	FPC
4	Blue foam	9	White coating (weight: 31.3mg)
5	Orange foam	10	White mixtures (SMD LED) (weight: 23.9mg)

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**Note:**

(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) mg/kg = ppm = part per million.

(3) ND. = Not detected (less than report limit).

(4) "[1]": Soluble Chromium is not restricted by EN 71-3, results shown only for reference.

(5) "[2]":  $C_{Cr(III)} = C_{Cr(total)} - C_{Cr(VI)}$ .

(6) "[3]": Chromium (VI) only for IC-UV.

(7) "[4]": If this element was detected, further confirmation test of Organic tin need to be performed.

(8) "[5]": The limit will be effective from 20 May, 2021 according to Directive (EU) 2019/1922.

(9) 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):**

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\*\*\*End of Report\*\*\*