



DECLARATION OF CONFORMITY

Date: Sep 08, 2025

PRODUCT: Magnetic Building Block Toy Series

Address: DENG FENG ROAD, GUANGYI STREET, CHENGHAI DISTRICT, SHANTOU CITY,
GUANGDONG PROVINCE, CHINA

Item No.: CLP10, CLP11, CLP12, CLP13, CLP14, CLP15, CLP16, CLP17, CLP18, CLP19,
CLP20, CLP21, CLP22, CLP23, CLP24, CLP25, CLP26, CLP27, CLP28, CLP29, CLP30, CLP31,
CLP32, CLP33, CLP34, CLP35, CLP36, CLP37, CLP38, CLP39, CLP40, CLP41, CLP42, CLP43,
CLP44, CLP45, CLP46, CLP47, CLP48, CLP49, CLP50, CLP51, CLP52, CLP53, CLP54, CLT21,
CLT22, CLT23, CLT24, CLT25, CLT26, CLT27, CLT28, CLT29, CLT30, CLT31, CLT32, CLT33,
CLT34, CLT35, CLT36, CLT37, CLT38, CLT39, CLT40, CLT41, CLT42, CLT43, CLT44, CLT45,
CLT46, CLT47, CLT48, CLT49, CLT50, CLT51, CLT52, CLT53, CLT54, CLT55, CLT56, CLT57,
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CLT165, CLT166, CLT167, CLT168, CLT169, CLT170, CLT171, CLT172, CLT173, CLT174,
CLT175.

We as **XINQIYUAN TOYS FACTORY** declare that the product whose features are below-just under our own responsibility, produced in accordance with the basic requirements and other relevant requirements of 2009/48/EC.

Applied Standards	Report No.:
-EN 71-1: 2014 + A1:2018 - Mechanical and Physical Properties -EN 71-2: 2020 - Flammability -EN 71-3: 2019+A2:2024- Migration of certain elements -BS EN 71-1: 2014 + A1:2018 - Mechanical and Physical Properties -BS EN 71-2: 2020 - Flammability -BS EN 71-3:2019+A2:2024- Migration of certain elements	SPF250403585R4

Based on the declaration of conformity certificates issued by our test laboratory,
Shantou Perfect testing technology group Co., Ltd. (SPG)
Room 706, 7/F., Zuo Cheng Building, Middle Section of Yuting Road, Shangdai, Chenghua Street, Chenghai
District, Shantou, Guangdong, China
Tel: 0754-88894222
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www.spg.net.cn

Signature: Wendy



中国认可
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检测
TESTING
CNAS L5950



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XINQIYUAN TOYS FACTORY

DENGFENG ROAD, GUANGYI STREET, CHENGHAI DISTRICT, SHANTOU CITY, GUANGDONG PROVINCE, CHINA

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

Sample Name: Magnetic Building Block Toy Series

Item No.: See next page

Requested age grading: 3+

Age group applied in testing: 3+

Sample received date: Jul 14, 2025

Testing period: From Jul 14, 2025 to Jul 21, 2025

Note: This report is updated based on the report No.SPF250403585.

Test conclusion:

Summary	Result
EN 71-1:2014 + A1:2018 - Mechanical and Physical Properties	Pass
EN 71-2:2020 - Flammability	Pass
BS EN 71-1:2014 + A1:2018 - Mechanical and Physical Properties *	Pass
BS EN 71-2:2020 - Flammability *	Pass
EN 71-3:2019+A2:2024 - Migration of certain elements	Pass
BS EN 71-3:2019+A2:2024 - Migration of certain elements *	Pass

Tested by :

Du ZiMin, Daisy

Inspected by :

Zhang WenXia, Wendy

Approved by :

Zhang Feng, Jee
Lab Manager

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

Section	Description	Result
4	General requirements	P
4.1	Material cleanliness	P
4.2	Assembly	NA
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	P
4.10	Parts moving against each other	P
4.10.1	Folding and sliding mechanisms	NA
4.10.2	Driving mechanisms	P
4.10.3	Hinges	NA
4.10.4	Springs	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
4.14.1	Toys which a child can enter	NA
4.14.2	Masks and helmets	NA
4.15	Toys intended to bear the mass of a child	NA
4.15.1	Toys propelled by a child or by other means	NA
4.15.2	Toy bicycles	NA
4.15.3	Rocking horses and similar toys	NA
4.15.4	Toys not propelled by a child	NA

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Section	Description	Result
4.15.5	Toy scooters	NA
4.16	Heavy immobile toys	NA
4.17	Projectiles toys	NA
4.17.1	General	NA
4.17.2	All projectiles	NA
4.17.3	Projectile toys with stored energy	NA
4.17.4	Certain projectile toys without stored energy	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	P
4.23.1	General	P
4.23.2	Toys other than magnetic/electrical experimental sets intended for children over 8 years	P
4.23.3	Magnetic/electrical experimental sets intended for children over 8 years	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

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Section	Description	Result
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 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	Projectile toys	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	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

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Section	Description	Result
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 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

Note:

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

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.

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2.EN 71-2:2020 Flammability

Section	Description	Result
4	Requirements	P
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:

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

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3.BS EN 71-1:2014+A1:2018 Safety aspects related to mechanical and physical properties

Section	Description	Result
4	General requirements	P
4.1	Material cleanliness	P
4.2	Assembly	NA
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	P
4.10	Parts moving against each other	P
4.10.1	Folding and sliding mechanisms	NA
4.10.2	Driving mechanisms	P
4.10.3	Hinges	NA
4.10.4	Springs	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
4.14.1	Toys which a child can enter	NA
4.14.2	Masks and helmets	NA
4.15	Toys intended to bear the mass of a child	NA
4.15.1	Toys propelled by a child or by other means	NA
4.15.2	Toy bicycles	NA
4.15.3	Rocking horses and similar toys	NA
4.15.4	Toys not propelled by a child	NA

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Section	Description	Result
4.15.5	Toy scooters	NA
4.16	Heavy immobile toys	NA
4.17	Projectiles toys	NA
4.17.1	General	NA
4.17.2	All projectiles	NA
4.17.3	Projectile toys with stored energy	NA
4.17.4	Certain projectile toys without stored energy	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	P
4.23.1	General	P
4.23.2	Toys other than magnetic/electrical experimental sets intended for children over 8 years	P
4.23.3	Magnetic/electrical experimental sets intended for children over 8 years	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

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Section	Description	Result
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 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	Projectile toys	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	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

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Section	Description	Result
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 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
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7.24	Sledges with cords for pulling	NA
7.25	Flying toys	NA
7.26	Improvised projectiles	NA

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.

Remark: Test item(s) with "*" is (are) not accredited by CNAS.

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4.BS EN 71-2:2020 Flammability

Section	Description	Result
4	Requirements	P
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:

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

Remark: Test item(s) with "*"is (are) not accredited by CNAS.

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5.Migration of Certain Elements

-Category III: Scraped-off toy material.

With reference to EN 71-3:2019+A2:2024, by Inductively Coupled Plasma-Optical Emission Spectrometry (ICP-OES), Ion Chromatography-Ultraviolet (IC-UV), Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

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

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Sample No. Item(s)	Result(mg/kg)				Report limit (mg/kg)	Limit (mg/kg)
	5	6	7	8		
Soluble Lead (Pb)	ND	ND	ND	ND	5	23
Soluble Cadmium (Cd)	ND	ND	ND	ND	2	17
Soluble Chromium (Cr)	ND	ND	ND	ND	0.03	---
Soluble Chromium (III)	ND	ND	ND	ND	---	460
Soluble Chromium (VI)	ND	ND	ND	ND	0.02	0.053
Soluble Mercury (Hg)	ND	ND	ND	ND	5	94
Soluble Arsenic (As)	ND	ND	ND	ND	5	47
Soluble Selenium (Se)	ND	ND	ND	ND	10	460
Soluble Antimony (Sb)	ND	ND	ND	ND	10	560
Soluble Barium (Ba)	ND	ND	ND	ND	100	18750
Soluble Aluminium (Al)	ND	ND	ND	ND	100	28130
Soluble Boron (B)	ND	ND	ND	ND	100	15000
Soluble Cobalt (Co)	ND	ND	ND	ND	10	130
Soluble Copper (Cu)	ND	ND	ND	ND	100	7700
Soluble Manganese (Mn)	ND	ND	ND	ND	100	15000
Soluble Nickel (Ni)	ND	ND	ND	ND	50	930
Soluble Strontium (Sr)	ND	ND	ND	ND	100	56000
Soluble Tin (Sn)	ND	ND	ND	ND	2.5	180000
Soluble Organic tin	<10	<10	<10	<10	---	12
Soluble Zinc (Zn)	ND	ND	ND	ND	100	46000
Mass of trace amount (mg)	---	---	---	---	---	---

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Sample No. Item(s)	Result(mg/kg)				Report limit (mg/kg)	Limit (mg/kg)
	9	10	11	12		
Soluble Lead (Pb)	ND	ND	ND	ND	5	23
Soluble Cadmium (Cd)	ND	ND	ND	ND	2	17
Soluble Chromium (Cr)	ND	ND	ND	ND	0.03	---
Soluble Chromium (III)	ND	ND	ND	ND	---	460
Soluble Chromium (VI)	ND	ND	ND	ND	0.02	0.053
Soluble Mercury (Hg)	ND	ND	ND	ND	5	94
Soluble Arsenic (As)	ND	ND	ND	ND	5	47
Soluble Selenium (Se)	ND	ND	ND	ND	10	460
Soluble Antimony (Sb)	ND	ND	ND	ND	10	560
Soluble Barium (Ba)	ND	ND	ND	ND	100	18750
Soluble Aluminium (Al)	ND	ND	ND	ND	100	28130
Soluble Boron (B)	ND	ND	ND	ND	100	15000
Soluble Cobalt (Co)	ND	ND	ND	ND	10	130
Soluble Copper (Cu)	ND	ND	ND	ND	100	7700
Soluble Manganese (Mn)	ND	ND	ND	ND	100	15000
Soluble Nickel (Ni)	ND	ND	ND	ND	50	930
Soluble Strontium (Sr)	ND	ND	ND	ND	100	56000
Soluble Tin (Sn)	ND	ND	ND	ND	2.5	180000
Soluble Organic tin	<10	<10	<10	<10	---	12
Soluble Zinc (Zn)	ND	ND	ND	ND	100	46000
Mass of trace amount (mg)	---	---	---	---	---	---

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Sample No. Item(s)	Result(mg/kg)				Report limit (mg/kg)	Limit (mg/kg)
	13	14	15	16		
Soluble Lead (Pb)	ND	ND	ND	ND	5	23
Soluble Cadmium (Cd)	ND	ND	ND	ND	2	17
Soluble Chromium (Cr)	ND	ND	ND	ND	0.03	---
Soluble Chromium (III)	ND	ND	ND	ND	---	460
Soluble Chromium (VI)	ND	ND	ND	ND	0.02	0.053
Soluble Mercury (Hg)	ND	ND	ND	ND	5	94
Soluble Arsenic (As)	ND	ND	ND	ND	5	47
Soluble Selenium (Se)	ND	ND	ND	ND	10	460
Soluble Antimony (Sb)	ND	ND	ND	ND	10	560
Soluble Barium (Ba)	ND	ND	ND	ND	100	18750
Soluble Aluminium (Al)	ND	ND	ND	ND	100	28130
Soluble Boron (B)	ND	ND	ND	ND	100	15000
Soluble Cobalt (Co)	ND	ND	ND	ND	10	130
Soluble Copper (Cu)	ND	ND	ND	ND	100	7700
Soluble Manganese (Mn)	ND	ND	ND	ND	100	15000
Soluble Nickel (Ni)	ND	ND	ND	ND	50	930
Soluble Strontium (Sr)	ND	ND	ND	ND	100	56000
Soluble Tin (Sn)	ND	ND	ND	ND	2.5	180000
Soluble Organic tin	<10	<10	<10	<10	---	12
Soluble Zinc (Zn)	ND	ND	ND	ND	100	46000
Mass of trace amount (mg)	---	---	---	---	---	---

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Sample No. Item(s)	Result(mg/kg)				Report limit (mg/kg)	Limit (mg/kg)
	17	18	19	20		
Soluble Lead (Pb)	ND	ND	ND	ND	5	23
Soluble Cadmium (Cd)	ND	ND	ND	ND	2	17
Soluble Chromium (Cr)	ND	ND	ND	ND	0.03	---
Soluble Chromium (III)	ND	ND	ND	ND	---	460
Soluble Chromium (VI)	ND	ND	ND	ND	0.02	0.053
Soluble Mercury (Hg)	ND	ND	ND	ND	5	94
Soluble Arsenic (As)	ND	ND	ND	ND	5	47
Soluble Selenium (Se)	ND	ND	ND	ND	10	460
Soluble Antimony (Sb)	ND	ND	ND	ND	10	560
Soluble Barium (Ba)	ND	ND	ND	ND	100	18750
Soluble Aluminium (Al)	ND	ND	ND	ND	100	28130
Soluble Boron (B)	ND	ND	ND	ND	100	15000
Soluble Cobalt (Co)	ND	ND	ND	ND	10	130
Soluble Copper (Cu)	ND	ND	ND	ND	100	7700
Soluble Manganese (Mn)	ND	ND	ND	ND	100	15000
Soluble Nickel (Ni)	ND	ND	ND	ND	50	930
Soluble Strontium (Sr)	ND	ND	ND	ND	100	56000
Soluble Tin (Sn)	ND	ND	ND	ND	2.5	180000
Soluble Organic tin	<10	<10	<10	<10	---	12
Soluble Zinc (Zn)	ND	ND	ND	ND	100	46000
Mass of trace amount (mg)	---	---	22.6	---	---	---

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Sample No. Item(s)	Result(mg/kg)	Report limit (mg/kg)	Limit (mg/kg)
	21		
Soluble Lead (Pb)	ND	5	23
Soluble Cadmium (Cd)	ND	2	17
Soluble Chromium (Cr)	ND	0.03	---
Soluble Chromium (III)	ND	---	460
Soluble Chromium (VI)	ND	0.02	0.053
Soluble Mercury (Hg)	ND	5	94
Soluble Arsenic (As)	ND	5	47
Soluble Selenium (Se)	ND	10	460
Soluble Antimony (Sb)	ND	10	560
Soluble Barium (Ba)	ND	100	18750
Soluble Aluminium (Al)	ND	100	28130
Soluble Boron (B)	ND	100	15000
Soluble Cobalt (Co)	ND	10	130
Soluble Copper (Cu)	ND	100	7700
Soluble Manganese (Mn)	ND	100	15000
Soluble Nickel (Ni)	ND	50	930
Soluble Strontium (Sr)	ND	100	56000
Soluble Tin (Sn)	ND	2.5	180000
Soluble Organic tin	<10	---	12
Soluble Zinc (Zn)	ND	100	46000
Mass of trace amount (mg)	---	---	---

Note:

ND = Not detected (less than report limit);

mg/kg = ppm = part per million.

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

(2) Soluble Chromium (III)=Soluble Chromium (Cr) – Soluble Chromium (VI).

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(3) Soluble Chromium (VI) only for IC-UV.

(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.

(5) 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.

(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.

Tested component(s):

Code	Specimen name
1	White plastic
2	Black plastic
3	Yellow plastic
4	Red plastic
5	Green plastic
6	Blue plastic
7	Orange plastic
8	Gray plastic
9	Pink plastic
10	Purple plastic
11	Transparent plastic
12	Black transparent plastic
13	Yellow transparent plastic
14	Red transparent plastic
15	Green transparent plastic
16	Blue transparent plastic
17	Purple transparent plastic
18	Cyan transparent plastic
19	Multicolor coating
20	White coating

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Tested component(s):

Code	Specimen name
21	Black soft plastic

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6.Migration of Certain Elements

-Category III:Scraped-off toy material.

With reference to BS EN 71-3:2019+A2:2024, by Inductively Coupled Plasma-Optical Emission Spectrometry (ICP-OES), Ion Chromatography-Ultraviolet (IC-UV), Gas Chromatography-Mass Spectrometry (GC-MS) analysis.

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

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Sample No. Item(s)	Result(mg/kg)				Report limit (mg/kg)	Limit (mg/kg)
	5	6	7	8		
Soluble Lead (Pb)	ND	ND	ND	ND	5	23
Soluble Cadmium (Cd)	ND	ND	ND	ND	2	17
Soluble Chromium (Cr)	ND	ND	ND	ND	0.03	---
Soluble Chromium (III)	ND	ND	ND	ND	---	460
Soluble Chromium (VI)	ND	ND	ND	ND	0.02	0.053
Soluble Mercury (Hg)	ND	ND	ND	ND	5	94
Soluble Arsenic (As)	ND	ND	ND	ND	5	47
Soluble Selenium (Se)	ND	ND	ND	ND	10	460
Soluble Antimony (Sb)	ND	ND	ND	ND	10	560
Soluble Barium (Ba)	ND	ND	ND	ND	100	18750
Soluble Aluminium (Al)	ND	ND	ND	ND	100	28130
Soluble Boron (B)	ND	ND	ND	ND	100	15000
Soluble Cobalt (Co)	ND	ND	ND	ND	10	130
Soluble Copper (Cu)	ND	ND	ND	ND	100	7700
Soluble Manganese (Mn)	ND	ND	ND	ND	100	15000
Soluble Nickel (Ni)	ND	ND	ND	ND	50	930
Soluble Strontium (Sr)	ND	ND	ND	ND	100	56000
Soluble Tin (Sn)	ND	ND	ND	ND	2.5	180000
Soluble Organic tin	<10	<10	<10	<10	---	12
Soluble Zinc (Zn)	ND	ND	ND	ND	100	46000
Mass of trace amount (mg)	---	---	---	---	---	---

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Sample No. Item(s)	Result(mg/kg)				Report limit (mg/kg)	Limit (mg/kg)
	9	10	11	12		
Soluble Lead (Pb)	ND	ND	ND	ND	5	23
Soluble Cadmium (Cd)	ND	ND	ND	ND	2	17
Soluble Chromium (Cr)	ND	ND	ND	ND	0.03	---
Soluble Chromium (III)	ND	ND	ND	ND	---	460
Soluble Chromium (VI)	ND	ND	ND	ND	0.02	0.053
Soluble Mercury (Hg)	ND	ND	ND	ND	5	94
Soluble Arsenic (As)	ND	ND	ND	ND	5	47
Soluble Selenium (Se)	ND	ND	ND	ND	10	460
Soluble Antimony (Sb)	ND	ND	ND	ND	10	560
Soluble Barium (Ba)	ND	ND	ND	ND	100	18750
Soluble Aluminium (Al)	ND	ND	ND	ND	100	28130
Soluble Boron (B)	ND	ND	ND	ND	100	15000
Soluble Cobalt (Co)	ND	ND	ND	ND	10	130
Soluble Copper (Cu)	ND	ND	ND	ND	100	7700
Soluble Manganese (Mn)	ND	ND	ND	ND	100	15000
Soluble Nickel (Ni)	ND	ND	ND	ND	50	930
Soluble Strontium (Sr)	ND	ND	ND	ND	100	56000
Soluble Tin (Sn)	ND	ND	ND	ND	2.5	180000
Soluble Organic tin	<10	<10	<10	<10	---	12
Soluble Zinc (Zn)	ND	ND	ND	ND	100	46000
Mass of trace amount (mg)	---	---	---	---	---	---

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Sample No. Item(s)	Result(mg/kg)				Report limit (mg/kg)	Limit (mg/kg)
	13	14	15	16		
Soluble Lead (Pb)	ND	ND	ND	ND	5	23
Soluble Cadmium (Cd)	ND	ND	ND	ND	2	17
Soluble Chromium (Cr)	ND	ND	ND	ND	0.03	---
Soluble Chromium (III)	ND	ND	ND	ND	---	460
Soluble Chromium (VI)	ND	ND	ND	ND	0.02	0.053
Soluble Mercury (Hg)	ND	ND	ND	ND	5	94
Soluble Arsenic (As)	ND	ND	ND	ND	5	47
Soluble Selenium (Se)	ND	ND	ND	ND	10	460
Soluble Antimony (Sb)	ND	ND	ND	ND	10	560
Soluble Barium (Ba)	ND	ND	ND	ND	100	18750
Soluble Aluminium (Al)	ND	ND	ND	ND	100	28130
Soluble Boron (B)	ND	ND	ND	ND	100	15000
Soluble Cobalt (Co)	ND	ND	ND	ND	10	130
Soluble Copper (Cu)	ND	ND	ND	ND	100	7700
Soluble Manganese (Mn)	ND	ND	ND	ND	100	15000
Soluble Nickel (Ni)	ND	ND	ND	ND	50	930
Soluble Strontium (Sr)	ND	ND	ND	ND	100	56000
Soluble Tin (Sn)	ND	ND	ND	ND	2.5	180000
Soluble Organic tin	<10	<10	<10	<10	---	12
Soluble Zinc (Zn)	ND	ND	ND	ND	100	46000
Mass of trace amount (mg)	---	---	---	---	---	---

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Sample No. Item(s)	Result(mg/kg)				Report limit (mg/kg)	Limit (mg/kg)
	17	18	19	20		
Soluble Lead (Pb)	ND	ND	ND	ND	5	23
Soluble Cadmium (Cd)	ND	ND	ND	ND	2	17
Soluble Chromium (Cr)	ND	ND	ND	ND	0.03	---
Soluble Chromium (III)	ND	ND	ND	ND	---	460
Soluble Chromium (VI)	ND	ND	ND	ND	0.02	0.053
Soluble Mercury (Hg)	ND	ND	ND	ND	5	94
Soluble Arsenic (As)	ND	ND	ND	ND	5	47
Soluble Selenium (Se)	ND	ND	ND	ND	10	460
Soluble Antimony (Sb)	ND	ND	ND	ND	10	560
Soluble Barium (Ba)	ND	ND	ND	ND	100	18750
Soluble Aluminium (Al)	ND	ND	ND	ND	100	28130
Soluble Boron (B)	ND	ND	ND	ND	100	15000
Soluble Cobalt (Co)	ND	ND	ND	ND	10	130
Soluble Copper (Cu)	ND	ND	ND	ND	100	7700
Soluble Manganese (Mn)	ND	ND	ND	ND	100	15000
Soluble Nickel (Ni)	ND	ND	ND	ND	50	930
Soluble Strontium (Sr)	ND	ND	ND	ND	100	56000
Soluble Tin (Sn)	ND	ND	ND	ND	2.5	180000
Soluble Organic tin	<10	<10	<10	<10	---	12
Soluble Zinc (Zn)	ND	ND	ND	ND	100	46000
Mass of trace amount (mg)	---	---	22.6	---	---	---

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Sample No. Item(s)	Result(mg/kg)	Report limit (mg/kg)	Limit (mg/kg)
	21		
Soluble Lead (Pb)	ND	5	23
Soluble Cadmium (Cd)	ND	2	17
Soluble Chromium (Cr)	ND	0.03	---
Soluble Chromium (III)	ND	---	460
Soluble Chromium (VI)	ND	0.02	0.053
Soluble Mercury (Hg)	ND	5	94
Soluble Arsenic (As)	ND	5	47
Soluble Selenium (Se)	ND	10	460
Soluble Antimony (Sb)	ND	10	560
Soluble Barium (Ba)	ND	100	18750
Soluble Aluminium (Al)	ND	100	28130
Soluble Boron (B)	ND	100	15000
Soluble Cobalt (Co)	ND	10	130
Soluble Copper (Cu)	ND	100	7700
Soluble Manganese (Mn)	ND	100	15000
Soluble Nickel (Ni)	ND	50	930
Soluble Strontium (Sr)	ND	100	56000
Soluble Tin (Sn)	ND	2.5	180000
Soluble Organic tin	<10	---	12
Soluble Zinc (Zn)	ND	100	46000
Mass of trace amount (mg)	---	---	---

Note:

ND = Not detected (less than report limit);

mg/kg = ppm = part per million.

(1) Soluble Chromium is not restricted by BS EN 71-3, results shown only for reference.

(2) Soluble Chromium (III)=Soluble Chromium (Cr) – Soluble Chromium (VI).

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- (3) Soluble Chromium (VI) only for IC-UV.
- (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.
- (5) 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.
- (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.
- (7) The data of BS EN 71-3 is copied from EN 71-3.

Tested component(s):

Code	Specimen name
1	White plastic
2	Black plastic
3	Yellow plastic
4	Red plastic
5	Green plastic
6	Blue plastic
7	Orange plastic
8	Gray plastic
9	Pink plastic
10	Purple plastic
11	Transparent plastic
12	Black transparent plastic
13	Yellow transparent plastic
14	Red transparent plastic
15	Green transparent plastic
16	Blue transparent plastic
17	Purple transparent plastic
18	Cyan transparent plastic
19	Multicolor coating

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Tested component(s):

Code	Specimen name
20	White coating
21	Black soft plastic

Remark: Test item(s) with "*" is (are) not accredited by CNAS.

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Sample Photo(s):



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