





Sep 30, 2016

Date:

中国认可 国际互认 检测 **TESTING CNAS L0220** 

**Test Report** Number: GZHH00218100

Applicant: HANGZHOU ZHIBANG TOYS FACTORY

NO. 22, QIAOYUAN RD, XIAOSHAN DISTRICT, HANGZHOU CITY, ZHEJIANG PROVINCE,

CHINA, 311215.

Sample Description:

Two (2) sets of submitted sample said to be :

**Magnetic Toys** Item Name Reference No. MKS15-ZB-05 Labelled Age Group Applicant Specified Age Grading for Testing "Not for Kids under 3" Over 3 Years

Packaging Provided by Applicant

Yes

Vendor Hangzhou Zhibang Toys Factory

Country of Origin China



Tests conducted:

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

To be continued

Approved:

Zhou Rui Bin

CNAS Approved Signatory

Approved:

Joan Liu

CNAS Approved Signatory

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**Pass** 

中国认可 国际互认 检测 TESTING CNAS L0220

Test Report Number: GZHH00218100

Conclusion:

Tested sample Standard Result
Submitted sample sets EN71-1:2014 for mechanical and physical Pass

Submitted sample sets EN71-1:2014 for mechanical and physical properties

EN71-2: 2011+A1:2014 Flammability test Pass

Tested component(s) of EN71-3:2013+A1:2014 on migration of certain Pass

submitted sample sets elements

Cadmium content requirement in REACH Pass

regulation Annex XVII Item 23 (EC) No 1907/2006 and amendment No. 552/2009,

494/2011, 835/2012 and 2016/217

Phthalates content requirement in Annex XVII

Items 51 & 52 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009 (formerly known as Directive 2005/84/EC)

(formerly known as Directive 2005/84/EC)

Approved:

Zhou Rui Bin

CNAS Approved Signatory

Approved:

Joan Liu

**CNAS Approved Signatory** 

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Test Report Number: GZHH00218100

**Tests Conducted** 

# 1 Physical and Mechanical Tests

As per European Standard on Safety of toys EN71-1:2014

The submitted samples were undergone the following abuse tests:

TestClauseParameterTorque test8.30.34 NmTension test8.4.2.190N

Drop test 8.5 850 mm x 5 times

Impact test 8.7 1 kg Compression test 8.8 110 N

4.3 Flexible plastic sheeting 4.4 Toy bags A.5 Glass NA 4.6 Expanding materials NA 4.7 Edges Points and metallic wires Protruding parts NA 4.10 Parts moving against each other A.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 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 Parts of toys and soft-filled parts of a toy NA 5.1 General requirements NA 5.2 Soft-filled toys and soft-filled parts of a toy NA Plastic sheeting NA	<u>Clause</u>	Testing Items	Assessment
4.2 Assembly 4.3 Flexible plastic sheeting 4.4 Toy bags NA 4.5 Glass NA 4.6 Expanding materials NA 4.7 Edges Points and metallic wires 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 Projectiles NA 4.18 Aquatic toys and inflatable toys NA 4.19 Percussion caps specifically designed for use in toys and toys using percussion caps A.20 Acoustics NA 4.21 Toys containing non-electrical heat source NA 4.22 Small balls NA 4.23 Magnets Parts moving against each other NA 4.24 Yo-yo balls NA 5.1 General requirements NA NA S.2 Soft-filled toys and soft-filled parts of a toy NA S.3 Plastic sheeting	4	General requirements	
4.3 Flexible plastic sheeting 4.4 Toy bags A.5 Glass NA 4.6 Expanding materials A.7 Edges A.9 Protruding parts A.10 Parts moving against each other A.11 Mouth actuated toys and other toys intended to be put in the mouth A.12 Balloons A.13 Cords of toy kites and other flying toys A.14 Enclosures A.15 Toys intended to bear the mass of a child A.16 Heavy immobile toys A.17 Projectiles A.18 Aquatic toys and inflatable toys A.19 Percussion caps specifically designed for use in toys and toys using percussion caps A.20 Acoustics A.21 Toys containing non-electrical heat source A.22 Small balls A.23 Magnets P.24 Yo-yo balls A.25 Toys attached to food Toys intended to folder under 36 months S.1 General requirements S.2 Soft-filled toys and soft-filled parts of a toy NA Plastic sheeting NA Plastic sheeting	4.1	Material	Р
4.4 Toy bags A.5 Glass A.6 Expanding materials A.7 Edges A.8 Points and metallic wires A.9 Protruding parts A.10 Parts moving against each other A.11 Mouth actuated toys and other toys intended to be put in the mouth A.12 Balloons A.13 Cords of toy kites and other flying toys A.14 Enclosures A.15 Toys intended to bear the mass of a child A.16 Heavy immobile toys A.17 Projectiles A.18 Aquatic toys and inflatable toys A.19 Percussion caps specifically designed for use in toys and toys using percussion caps A.20 Acoustics A.21 Toys containing non-electrical heat source A.22 Small balls A.23 Magnets A.24 Yo-yo balls A.25 Toys attached to food 5 Toys intended for children under 36 months 5.1 General requirements 5.2 Soft-filled toys and soft-filled parts of a toy NA Plastic sheeting NA Plastic sheeting	4.2	Assembly	NA
4.5 Glass  4.6 Expanding materials  4.7 Edges  Points and metallic wires  Protruding parts  4.10 Parts moving against each other  4.11 Mouth actuated toys and other toys intended to be put in the mouth  4.12 Balloons  4.13 Cords of toy kites and other flying toys  4.14 Enclosures  NA  4.15 Toys intended to bear the mass of a child  4.16 Heavy immobile toys  4.18 Aquatic toys and inflatable toys  4.19 Percussion caps specifically designed for use in toys and toys using percussion caps  4.20 Acoustics  4.21 Toys containing non-electrical heat source  4.22 Small balls  NA  4.23 Magnets  Passing Against  Passing Against  NA  4.24 Yo-yo balls  NA  4.25 Toys attached to food  Toys intended for children under 36 months  5.1 General requirements  NA  Plastic sheeting	4.3	Flexible plastic sheeting	NA
4.6 Expanding materials  4.7 Edges  4.8 Points and metallic wires  4.9 Protruding parts  4.10 Parts moving against each other  4.11 Mouth actuated toys and other toys intended to be put in the mouth  4.12 Balloons  4.13 Cords of toy kites and other flying toys  4.14 Enclosures  NA  4.15 Toys intended to bear the mass of a child  4.16 Heavy immobile toys  4.17 Projectiles  NA  4.18 Aquatic toys and inflatable toys  4.19 Percussion caps specifically designed for use in toys and toys using percussion caps  4.20 Acoustics  4.21 Toys containing non-electrical heat source  4.22 Small balls  NA  4.23 Magnets  P A  4.24 Yo-yo balls  NA  4.25 Toys attached to food  Toys intended for children under 36 months  5.1 General requirements  NA  Plastic sheeting  NA  Plastic sheeting	4.4		NA
4.7 Edges  4.8 Points and metallic wires  4.9 Protruding parts  4.10 Parts moving against each other  4.11 Mouth actuated toys and other toys intended to be put in the mouth  4.12 Balloons  4.13 Cords of toy kites and other flying toys  4.14 Enclosures  NA  4.15 Toys intended to bear the mass of a child  4.16 Heavy immobile toys  4.17 Projectiles  NA  4.18 Aquatic toys and inflatable toys  4.19 Percussion caps specifically designed for use in toys and toys using percussion caps  4.20 Acoustics  NA  4.21 Toys containing non-electrical heat source  NA  4.22 Small balls  NA  4.23 Magnets  P  4.24 Yo-yo balls  NA  5 Toys intended for children under 36 months  5.1 General requirements  NA  Plastic sheeting  NA  Plastic sheeting	4.5	Glass	NA
4.8 Points and metallic wires 4.9 Protruding parts  4.10 Parts moving against each other  4.11 Mouth actuated toys and other toys intended to be put in the mouth  4.12 Balloons  4.13 Cords of toy kites and other flying toys  4.14 Enclosures  4.15 Toys intended to bear the mass of a child  4.16 Heavy immobile toys  4.17 Projectiles  4.18 Aquatic toys and inflatable toys  4.19 Percussion caps specifically designed for use in toys and toys using percussion caps  4.20 Acoustics  4.21 Toys containing non-electrical heat source  4.22 Small balls  4.23 Magnets  4.24 Yo-yo balls  5.1 General requirements  NA  5.2 Soft-filled toys and soft-filled parts of a toy  NA  Plastic sheeting	4.6	Expanding materials	NA
4.9 Protruding parts  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  NA  4.18 Aquatic toys and inflatable toys  NA  4.19 Percussion caps specifically designed for use in toys and toys using percussion caps  4.20 Acoustics  NA  4.21 Toys containing non-electrical heat source  NA  4.22 Small balls  NA  4.23 Magnets  P  4.24 Yo-yo balls  NA  4.25 Toys attached to food  Soft-filled toys and soft-filled parts of a toy  NA  Soft-filled toys and soft-filled parts of a toy  NA  NA  NA  NA  NA  NA  NA  NA  NA  N	4.7		
4.10 Parts moving against each other  4.11 Mouth actuated toys and other toys intended to be put in the mouth  4.12 Balloons  4.13 Cords of toy kites and other flying toys  4.14 Enclosures  NA  4.15 Toys intended to bear the mass of a child  4.16 Heavy immobile toys  4.17 Projectiles  NA  4.18 Aquatic toys and inflatable toys  4.19 Percussion caps specifically designed for use in toys and toys using percussion caps  4.20 Acoustics  NA  4.21 Toys containing non-electrical heat source  NA  4.22 Small balls  NA  4.23 Magnets  P  4.24 Yo-yo balls  NA  4.25 Toys attached to food  Toys intended for children under 36 months  5.1 General requirements  NA  NA  NA  NA  Plastic sheeting  NA  NA  NA  NA  NA  NA  NA  NA  NA  N			
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4.12 Balloons  4.13 Cords of toy kites and other flying toys  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  NA  4.18 Aquatic toys and inflatable toys  NA  4.19 Percussion caps specifically designed for use in toys and toys using percussion caps  4.20 Acoustics  NA  4.21 Toys containing non-electrical heat source  NA  4.22 Small balls  NA  4.23 Magnets  Particularly Yo-yo balls  NA  4.25 Toys attached to food  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  Plastic sheeting	4.10	Parts moving against each other	NA
4.13 Cords of toy kites and other flying toys  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  NA  4.18 Aquatic toys and inflatable toys  NA  4.19 Percussion caps specifically designed for use in toys and toys using percussion caps  4.20 Acoustics  NA  4.21 Toys containing non-electrical heat source  NA  4.22 Small balls  NA  4.23 Magnets  Particular in the percussion caps  NA  4.25 Toys attached to food  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  NA  NA  NA  NA  NA  NA  NA  NA  N	4.11	Mouth actuated toys and other toys intended to be put in the mouth	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       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       P         4.24       Yo-yo balls       NA         4.25       Toys attached to food       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	4.12	Balloons	NA
4.15 Toys intended to bear the mass of a child  4.16 Heavy immobile toys  4.17 Projectiles  NA  4.18 Aquatic toys and inflatable toys  A.19 Percussion caps specifically designed for use in toys and toys using percussion caps  4.20 Acoustics  NA  4.21 Toys containing non-electrical heat source  NA  4.22 Small balls  NA  4.23 Magnets  P  4.24 Yo-yo balls  NA  4.25 Toys attached to food  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  Plastic sheeting		Cords of toy kites and other flying toys	NA
4.16 Heavy immobile toys  4.17 Projectiles  NA  4.18 Aquatic toys and inflatable toys  4.19 Percussion caps specifically designed for use in toys and toys using percussion caps  4.20 Acoustics  NA  4.21 Toys containing non-electrical heat source  4.22 Small balls  NA  4.23 Magnets  P  4.24 Yo-yo balls  NA  4.25 Toys attached to food  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  NA  NA  NA  NA  NA  NA  NA  NA  N	4.14	Enclosures	NA
4.17 Projectiles  4.18 Aquatic toys and inflatable toys  4.19 Percussion caps specifically designed for use in toys and toys using percussion caps  4.20 Acoustics  4.21 Toys containing non-electrical heat source  4.22 Small balls  4.23 Magnets  4.24 Yo-yo balls  5 Toys attached to food  Toys intended for children under 36 months  5.1 General requirements  S.2 Soft-filled toys and soft-filled parts of a toy  NA  NA  NA  NA  NA  NA  NA  NA  NA  N	4.15	Toys intended to bear the mass of a child	NA
4.18 Aquatic toys and inflatable toys  4.19 Percussion caps specifically designed for use in toys and toys using percussion caps  4.20 Acoustics  4.21 Toys containing non-electrical heat source  4.22 Small balls  4.23 Magnets  4.24 Yo-yo balls  5 Toys attached to food  Toys intended for children under 36 months  5.1 General requirements  5.2 Soft-filled toys and soft-filled parts of a toy  NA  Plastic sheeting	4.16	Heavy immobile toys	NA
4.19 Percussion caps specifically designed for use in toys and toys using percussion caps  4.20 Acoustics  4.21 Toys containing non-electrical heat source  4.22 Small balls  4.23 Magnets  4.24 Yo-yo balls  4.25 Toys attached to food  5 Toys intended for children under 36 months  5.1 General requirements  5.2 Soft-filled toys and soft-filled parts of a toy  5 Plastic sheeting	4.17	Projectiles	NA
4.20 Acoustics NA 4.21 Toys containing non-electrical heat source NA 4.22 Small balls NA 4.23 Magnets P 4.24 Yo-yo balls NA 4.25 Toys attached to food 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 Plastic sheeting NA	4.18		NA
4.21       Toys containing non-electrical heat source       NA         4.22       Small balls       NA         4.23       Magnets       P         4.24       Yo-yo balls       NA         4.25       Toys attached to food       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	4.19		NA
4.22       Small balls       NA         4.23       Magnets       P         4.24       Yo-yo balls       NA         4.25       Toys attached to food       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	4.20	Acoustics	NA
4.23 Magnets P 4.24 Yo-yo balls NA 4.25 Toys attached to food 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	4.21	Toys containing non-electrical heat source	NA
4.24 Yo-yo balls  4.25 Toys attached to food  5 Toys intended for children under 36 months  5.1 General requirements  5.2 Soft-filled toys and soft-filled parts of a toy  5.3 Plastic sheeting  NA	4.22	Small balls	NA
4.25 Toys attached to food 5 Toys intended for children under 36 months 5.1 General requirements 5.2 Soft-filled toys and soft-filled parts of a toy 5.3 Plastic sheeting NA	4.23	Magnets	Р
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	4.24	Yo-yo balls	NA
5.1 General requirements NA 5.2 Soft-filled toys and soft-filled parts of a toy NA 5.3 Plastic sheeting NA	4.25	Toys attached to food	NA
5.2 Soft-filled toys and soft-filled parts of a toy NA 5.3 Plastic sheeting NA			
5.3 Plastic sheeting NA		General requirements	NA
5.3 Plastic sheeting NA		Soft-filled toys and soft-filled parts of a toy	NA
5.4 Cords chains and electrical cables in toys		Plastic sheeting	NA
	5.4	Cords, chains and electrical cables in toys	NA
5.5 Liquid filled toys NA	5.5	Liquid filled toys	NA

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**Tests Conducted** 

oridacted		
<u>Clause</u>	Testing Items	Assessment
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
6	Packaging	Р
7	Warnings, markings and instructions for use	
7.1	General	Р
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	Projectiles	NA
7.8	Imitation protective masks and helmets	NA
7.9	Toy kites	NA
7.10	Roller skates, inlineskates and skateboards	NA
7.11	Toys intended to be attached to strung across a cradle, cot, or perambulator	NA
7.12	Liquid-filled teethers	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

nark: P = Pass Remark: NA = Not Applicable



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Test Report Number: GZHH00218100

**Tests Conducted** 

Remark: Additional information according to the Toy Safety Directives 2009/48/EC requirement.

These information also appears as a note within the EN71 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.

- Manufacturer's name was on the packaging.
- Manufacturer's address was on the packaging.
- Importer's name was missed.
- Importer's address was missed.
- Product identification code was on the packaging.

- CE marking was on the packaging.

Date sample received: Sep 26, 2016

Testing period : Sep 26, 2016 to Sep 28, 2016

## 2 Flammability Test

As per European Standard on Safety of Toys EN71-2:2011+A1:2014

Clause	Testing Items	Assessment
4.1	General	Р
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

Remark: P = Pass NA = Not Applicable

Date sample received: Sep 26, 2016

Testing period : Sep 26, 2016 to Sep 28, 2016

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GZHH00218100 **Test Report** Number:

**Tests Conducted** 

3 19 Toxic Element Migration Test

(A) Test Result

As per EN71-3:2013+A1:2014 and followed by Inductively Coupled Plasma Atomic Emission Spectrometry, Inductively Coupled Argon Mass Spectrometry.

Category (III): Scraped-off toy material

	Result (mg/kg)		
Element	Tested Component	Reporting Limit	<u>Limit</u> (mg/kg)
	<u>(1), (2)</u>	(mg/kg)	<u>(g/g/</u>
Aluminium (Al)	ND	300	70000
Antimony (Sb)	ND	10	560
Arsenic (As)	ND	10	47
Barium (Ba)	ND	10	18750
Boron (B)	ND	50	15000
Cadmium (Cd)	ND	5	17
Chromium (III) (Cr III) **	ND	10	460
Chromium (VI) (Cr VI) **	ND	0.1	0.2
Cobalt (Co)	ND	10	130
Copper (Cu)	ND	10	7700
Lead (Pb)	ND	10	160
Manganese (Mn)	ND	10	15000
Mercury (Hg)	ND	10	94
Nickel (Ni)	ND	10	930
Selenium (Se)	ND	10	460
Strontium (Sr)	ND	100	56000
Tin (Sn)	ND	10	180000
Organic tin **	ND	2.0	12
Zinc (Zn)	ND	100	46000

Remark : mg/kg = milligram per kilogram ND = Not detected

++ = Unless the test results were marked with "#" or "\( \Delta \)", Chromium (III) & Chromium (VI) and Organic tin contents were not directly determined and were derived from migration results of total chromium and tin respectively.

- Organic tin test result was expressed as tributyl tin.

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

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Number: GZHH00218100 **Test Report** 

**Tests Conducted** 

(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 26, 2016

Testing period: Sep 26, 2016 to Sep 29, 2016

#### 4 Cadmium (Cd) Content

With reference to test methods EN1122: 2001 and IEC 62321-5:2013, acid digestion method was used and total Cadmium content was determined by Inductively Coupled Argon Plasma Spectrometry.

	Result (%)	Reporting
<u>Element</u>	<u>Tested Component</u>	<u>Limit</u> (%)
	<u>(1+2), (4+5+6), (7)</u>	<u>(%)</u>
Cadmium (Cd)	ND	0.0005

## Limit:

Category	Limit (%)
Wet paint	0.01
Surface coating	0.1
Plastic	0.01
Metal parts of jewelry & hair accessories	0.01

ND = Not detected

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

Date sample received: Sep 26, 2016 Testing period: Sep 26, 2016 to Sep 29, 2016

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**Tests Conducted** 

# 5 Phthalate Content

With reference to EN 14372:2004, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

## For 3 phthalate

<u>Test Item</u>	Result (%) Tested component (3)	Reporting Limit (%)	<u>Limit</u> (%)
Dibutyl phthalate (DBP)	ND	0.01	
Di-(2-ethyl hexyl) phthalate (DEHP)	ND	0.01	
Benzyl butyl phthalate (BBP)	ND	0.01	
Sum of DBP, DEHP and BBP	ND		0.1

# For 6 phthalate

Test Item	Result (%) Tested component (1+2)	Reporting Limit (%)	<u>Limit</u> (%)
Dibutyl phthalate (DBP)	ND ND	0.01	
Di-(2-ethyl hexyl) phthalate (DEHP)	ND	0.01	
Benzyl butyl phthalate (BBP)	ND	0.01	
Sum of DBP,DEHP and BBP	ND		0.1
Di-iso-nonyl phthalate (DINP)	ND	0.01	
Di-n-octyl phthalate(DNOP)	ND	0.01	
Di-iso-decyl phthalate (DIDP)	ND	0.01	
Sum of DINP, DNOP and DIDP	ND		0.1

The above limit was quoted according to Annex XVII Items 51 & 52 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009(formerly known as Directive 2005/84/EC) for phthalate content in toys and child care articles.

ND = Not detected

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

Date sample received: Sep 26, 2016

Testing period: Sep 26, 2016 to Sep 29, 2016

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Test Report Number: GZHH00218100

**Tests Conducted** 

## Component list:

- (1) Semi-transparent yellow plastic (triangle frame, hexagon frame, square frame).
- (2) Semi-transparent fuchsia plastic (triangle frame, hexagon frame, square frame).
- (3) White paper (lining of triangle frame, hexagon frame, square frame)(internal).
- (4) Blue plastic (cover of box)(packaging).
- (5) Cream plastic (buckle of cover of box)(packaging).
- (6) Transparent plastic (body of box)(packaging).
- (7) Multicolor coatings on paper (sticker of box)(packaging).

End of report

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