

**Test Report**

Number: GZHH00292419

Applicant: SHANTOU CITY CHENGHAI XIN LIAN FENG  
PLASTIC INDUSTRY CO. LTD  
No.7, PLASTIC TOWN, CHENGHAI DISTRICT,  
SHANTOU CITY, GUANGDONG PROVINCE,  
CHINA

Date: Aug 06, 2018

**Sample Description:**

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

Item Name	:	<b>Doll Series</b>
Reference No.	:	LF01,LF07,DC01,61236,61632,60834,60980EP,60183,60141,60194,60195, 60196,60185,60198,60187,60110,60190,60208,60209,60210,60211,60212, 60213,60214,60215,60216,60217,60218,60219,60685,60703,60674P,60220, 60221,60222,60223,60224,60225,60226,60227,60228,60229,60230,60231, 60232,60233,60234,60235,60236,60237,60238,60239,60240,60241,60242, 60243,60244,60245,60246,60247,60248,60249,60250,60251,60252,60253, 60254,60255,60256,60257,60258,60259,60260,60261,60262,60263,60264
Labelled Age Group	:	3+
Applicant Specified Age	:	Over 3 years
Grading for Testing	:	
Packaging Provided by Applicant	:	Yes
Country of Origin	:	China

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**Tests conducted:**

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

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To be continued

Approved:

Parco Leung  
Technical Supervisor



Approved:

Huang Hui Hua  
Technical Support Assistant Manager



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Conclusion:

<u>Tested Samples</u> Submitted samples	<u>Standard</u>	<u>Result</u>
	EN71-1:2014 for mechanical and physical properties	Pass
	EN71-2 : 2011+A1:2014 Flammability test excluding flash point test on liquid	Pass
	EN71-1:2014+A1:2018 for mechanical and physical properties	Pass#
Tested component(s) of submitted samples	EN71-3:2013+A1:2014 on migration of certain elements	Pass
	EN71-3:2013+A1:2014 on migration of certain elements & EU 2017/738 amending 2009/48/EC(effective from Oct 28,2018) for lead migration	Pass
	EN71-3:2013+A2:2017 on migration of certain elements	Pass
	EN71-3:2013+A2:2017 on migration of certain elements & EU 2017/738 amending 2009/48/EC (effective from Oct 28,2018) for lead migration	Pass
	EN71-3:2013+A3:2018 on migration of certain elements	Pass#
	EN71-3:2013+A3:2018 on migration of certain elements & EU 2018/725 amending 2009/48/EC (effective from Nov 18,2019) for chromium (VI) migration	Pass#

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# This test in the report is not included in the CNAS accreditation schedule for our laboratory.

Remark: According to the laboratory, baby dolls, stuffed toys and squeeze ducks shall comply with the less than 3 years old requirements. Nevertheless, the client asked the item to be tested for over than 3 years old requirements and had been tested as such per client's requirement

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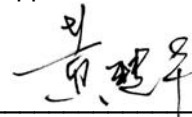
Approved:



Parco Leung  
Technical Supervisor



Approved:



Huang Hui Hua  
Technical Support Assistant Manager



**Test Report**

Number: GZHH00292419

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:

Test	Clause	Parameter
Torque test	8.3	0.34 Nm
Tension test	8.4.2.1	90N

Clause	Testing Items	Assessment
4	General requirements	
4.1	Material	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	NA
4.10	Parts moving against each other	NA
4.11	Mouth actuated toys and other toys intended to be put in the mouth	P
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	P
4.21	Toys containing 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
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



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Clause	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	P
7	Warnings, markings 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, 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

Remark: P = Pass NA = Not Applicable

# = Age warning statement, graphical symbol and the indication of hazard was found on the packaging.

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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 missed.
- Manufacturer's address was missed.
- Importer's name was missed.
- Importer's address was missed.
- Product identification code was missed.
- CE marking was on the packaging.
- The CE-marking on the packaging was not in a correct format.

Date sample received : Jul 24, 2018  
Testing period : Jul 24, 2018 to Aug 03, 2018

2 **Flammability Test**

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

Clause	Testing Items	Assessment
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	P

Remark: P = Pass NA = Not Applicable

\* = According to the request of applicant, flammability test on liquid was not assessed.

Date sample received : Jul 24, 2018  
Testing period : Jul 24, 2018 to Aug 03, 2018

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**Test Report**

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Tests Conducted

3 Mechanical and Physical Test

As per European Standard on Safety of toys EN71-1:2014+A1:2018.

The submitted samples were undergone the following abuse tests:		
<u>Test</u>	<u>Clause</u>	<u>Parameter</u>
Torque test	8.3	0.34 Nm
Tension test	8.4.2.1	90 N

Clause	Testing items	Assessment
4	General requirements	
4.1	Material	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	NA
4.10	Parts moving against each other	NA
4.11	Mouth actuated toys and other toys intended to be put in the mouth	P
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	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	P
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



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Tests Conducted

Clause	Testing items	Assessment
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
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	P
7	Warnings, markings and instructions for use	
7.1	General	P
7.2	Toys not intended for children under 36 months	P/#1
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 and skateboards and certain other ride-on toys	NA
7.11	Toys 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





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Tests Conducted

Clause	Testing items	Assessment
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
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

Remark : P = Pass NA = Not Applicable

#1 = Age warning statement and the indication of hazard was found on the packaging.

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 missed.
- Manufacturer's address was missed.
- Importer's name was missed.
- Importer's address was missed.
- Product identification code was missed.
- CE-marking was on the packaging.
- The CE-marking on the packaging was not in a correct format.

Date sample received: Jul 24, 2018  
Testing period: Jul 24, 2018 to Aug 03, 2018

\*\*\*\*\*





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Tests Conducted

4 19 Toxic Element Migration Test

(A) Test Result

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

Category (III): Scraped-off toy material

Element	Result (mg/kg)	Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component		
	(1)to(6)		
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	0.025	0.2/0.053◎
Cobalt (Co)	ND	10	130
Copper (Cu)	ND	10	7700
Lead (Pb)	ND	10	160/23∅
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	2.5	180000
Organic tin **	ND	2.0	12
Zinc (Zn)	ND	100	46000

Remark : mg/kg = milligram per kilogram

++ = 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.

- Organic tin test result was expressed as tributyl tin.

ND = Not detected (less than reporting limit)

∅ = The new lead migration limit [(2.0mg/kg for Category (I), 0.5mg/kg for category (II) and 23 mg/kg for Category (III)] were quoted from directive (EU) 2017/738 amending 2009/48/EC effective from 28 October 2018.

◎ = The new chromium (VI) migration limit [(0.053mg/kg for Category (III)] were quoted from directive (EU) 2018/725 amending 2009/48/EC effective from 18 November 2019.

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**Test Report**

Number: GZHH00292419

Tests Conducted

Tested Component(s):

- (1) Light pink knit (body of Light pink doll).
- (2) Dark nude soft plastic (head of dark blue doll).
- (3) Blue brushed knit (body of blue doll).
- (4) Nude plastic (leg of dark pink and blue doll).
- (5) Pink plastic (big bottle).
- (6) Dark pink plastic (toilet).

Remark: As requested by the applicant, toxic elements content test were conducted only components listed in this report. Other components were not tested.

(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: Jul 24, 2018

Testing period: Jul 24, 2018 to Jul 30, 2018

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**Test Report**

Number: GZHH00292419

Tests Conducted

5 19 Toxic Element Migration Test

(A) Test Result

As per EN71-3:2013+A2:2017 and followed by Inductively Coupled Plasma Atomic Emission Spectrometry.

Category (III): Scraped-off toy material

Element	Result (mg/kg)	Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component		
	(1)to(6)		
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	0.025	0.2/0.053©
Cobalt (Co)	ND	10	130
Copper (Cu)	ND	10	7700
Lead (Pb)	ND	10	160/23ø
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	2.5	180000
Organic tin **	ND	2.0	12
Zinc (Zn)	ND	100	46000

Remark : mg/kg = milligram per kilogram  
 ++ = 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.  
 - Organic tin test result was expressed as tributyl tin.  
 ND = Not detected (less than reporting limit)  
 ø = The new lead migration limit [(2.0mg/kg for Category (I), 0.5mg/kg for category (II) and 23 mg/kg for Category (III)] were quoted from directive (EU) 2017/738 amending 2009/48/EC effective from 28 October 2018.  
 © = The new chromium (VI) migration limit [(0.053mg/kg for Category (III))] were quoted from directive (EU) 2018/725 amending 2009/48/EC effective from 18 November 2019.

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**Test Report**

Number: GZHH00292419

Tests Conducted

Tested Component(s):

- (1) Light pink knit (body of Light pink doll).
- (2) Dark nude soft plastic (head of dark blue doll).
- (3) Blue brushed knit (body of blue doll).
- (4) Nude plastic (leg of dark pink and blue doll).
- (5) Pink plastic (big bottle).
- (6) Dark pink plastic (toilet).

Remark: As requested by the applicant, toxic elements content test were conducted only components listed in this report. Other components were not tested.

(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: Jul 24, 2018  
Testing period: Jul 24, 2018 to Jul, 2018

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Tests Conducted

6 19 Toxic Element Migration Test

(A) Test Result

As per EN71-3:2013+A3:2018 and followed by Inductively Coupled Plasma Atomic Emission Spectrometry.

Category (III): Scraped-off toy material

Element	Result (mg/kg)	Reporting Limit (mg/kg)	Limit (mg/kg)
	Tested Component		
	(1)to(6)		
Aluminium (Al)	ND	300	70000
Antimony (Sb)	ND	10	560
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Cadmium (Cd)	ND	5	17
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Cobalt (Co)	ND	10	130
Copper (Cu)	ND	10	7700
Lead (Pb)	ND	10	23
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	2.5	180000
Organic tin **	ND	2.0	12
Zinc (Zn)	ND	100	46000

Remark : mg/kg = milligram per kilogram  
 ++ = 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.  
 - Organic tin test result was expressed as tributyl tin.  
 ND = Not detected (less than reporting limit)  
 ◎ = The new chromium (VI) migration limit [(0.053mg/kg for Category (III))] were quoted from directive (EU) 2018/725 amending 2009/48/EC effective from 18 November 2019.

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**Test Report**

Number: GZHH00292419

Tests Conducted

Tested Component(s):

- (1) Light pink knit (body of Light pink doll).
- (2) Dark nude soft plastic (head of dark blue doll).
- (3) Blue brushed knit (body of blue doll).
- (4) Nude plastic (leg of dark pink and blue doll).
- (5) Pink plastic (big bottle).
- (6) Dark pink plastic (toilet).

Remark: As requested by the applicant, toxic elements content test were conducted only components listed in this report. Other components were not tested.

(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: Jul 24, 2018

Testing period: Jul 24, 2018 to Jul 30, 2018

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Tests Conducted



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**Test Report**

Number: GZHH00292419

Tests Conducted



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End of report

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