

Test Report

Applicant : Qingdao Onpi International Trade Co.,Ltd.
A922,6 Hongkong Middle Road,Qingdao,China 266071
Attn :Carol Lu

NUMBER : TSNH00330908
Date : Dec 06,2019

Sample Description:

One (1) submitted sample said to be	
Item Name	17cm Traditional Bear with beans in both feet and tail
Item No.	E103
Age Grading for Testing	0+
Packaging Provided or No	No
Country of Destination	UK
Country of Origin	CHINA

Tests Conducted:

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

Conclusion:

Tested Sample(s)/Component(s)	Standard	Result
Submitted Sample	EN71-1:2014+A1:2018 for mechanical and physical properties	Pass
Submitted Sample	EN71 Part 2 : 2011+A1:2014 Flammability test	Pass
Tested component of submitted samples	EN 71-3:2019 on migration of certain elements	Pass
(1+2)	Azocolourants content requirement in ANNEX XVII item 43 of the REACH regulation (EC) No. 1907/2006 , amendment No. 552/2009 and 126/2013 (formerly known as directive 2002/61/EC)	Pass
(1)&(2)	DIN EN ISO 105-X12	See test page for detail
(1)&(2)	BS EN ISO 105-E01-2013	See test page for detail

Remark : At the request of the applicant, samples were evaluated according to EN71-1 and EN71-2 both before and after washing.

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Authorized By :
For Intertek Testing Services
(Tianjin) Ltd. Qingdao Branch



David Zhang
Senior Manager



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1. Mechanical and Physical Test

As per European Standard on Safety of toys EN 71-1:2014+A1:2018

Applicant's specified age group for testing: All ages.

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	90 N
Seams and materials	8.4.2.2	70 N
Drop test	8.5	850 mm x 5times
Impact test	8.7	1 kg
Compression test	8.8	110 N

Clause	Testing items	Assessment
4	General requirements	
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	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	Projectile toys	NA

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Clause	Testing items	Assessment
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	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	P
5.2	Soft-filled toys and soft-filled parts of a toy	P
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	NA
7	Warnings, markings and instructions for use	
7.1	General	P
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	Projectile toys	NA
7.8	Imitation protective masks and helmets	NA
7.9	Toy kites	NA

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Clause	Testing items	Assessment
7.10	Roller skates, inlineskates and 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
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
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

Remark: As requested by applicant, samples was tested to EN71-1 both before and after washing. The washing method as below:

- Machine wash with reference to EC type approval protocol No. 4 domestic washing and drying procedures for textiles toy intended for children under 36 months and EN ISO 6330 (2000) + A1 (2009)

No difference in test results before and after washing.

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

2. Cleaning instruction

A toy intended for use by children under 36 months must be designed and manufactured in such a way that it can be cleaned. The toy shall fulfill the safety requirements also after having been cleaned in accordance with this point and the manufacturer's instructions. The manufacturer should, if applicable, provided instructions on how the toy has to be cleaned.

After checking, the cleaning instruction was found on the submitted samples.

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2.Flammability Test

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

<u>Clause</u>	<u>Testing items</u>	<u>Assessment</u>
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

Note: As requested by applicant, samples was tested to EN71-2 both before and after washing. The washing method as below:
Machine wash according to EN ISO 6330:2000+A1:2009

No difference in test results before and after washing.

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3.19 Toxic Elements Migration Test

(A) Test Result

As per EN 71-3:2019 and followed by Inductively Coupled Plasma Atomic Emission Spectrometry, Inductively Coupled Argon Mass Spectrometry, Ion Chromatography- Inductively Coupled Plasma-Mass Spectrometry

Category (III): Scraped-off toy material_

Element	Result (mg/kg)						Limit (mg/kg)
	(1)	(2)	(3)	(4)	(5)	(6)	
Aluminium (Al)	< 300	< 300	< 300	< 300	< 300	< 300	70000
Antimony (Sb)	< 10	17	< 10	< 10	< 10	< 10	560
Arsenic (As)	< 10	< 10	< 10	< 10	< 10	< 10	47
Barium (Ba)	< 10	< 10	22	< 10	< 10	< 10	18750
Boron (B)	< 50	< 50	< 50	< 50	< 50	< 50	15000
Cadmium (Cd)	< 5	< 5	< 5	< 5	< 5	< 5	17
Chromium (III) (Cr III) ⁺⁺	< 10	< 10	< 10	< 10	< 10	< 10	460
Chromium (VI) (Cr VI) ⁺⁺	< 0.025#	< 0.025#	< 0.025#	< 0.025#	< 0.025#	< 0.025#	0.053 [Ⓞ]
Cobalt (Co)	< 10	< 10	< 10	< 10	< 10	< 10	130
Copper (Cu)	< 10	< 10	27	< 10	< 10	< 10	7700
Lead (Pb)	< 10	< 10	< 10	< 10	< 10	< 10	23
Manganese (Mn)	< 10	< 10	< 10	< 10	< 10	< 10	15000
Mercury (Hg)	< 10	< 10	< 10	< 10	< 10	< 10	94
Nickel (Ni)	< 10	< 10	< 10	< 10	< 10	< 10	930
Selenium (Se)	< 10	< 10	< 10	< 10	< 10	< 10	460
Strontium (Sr)	< 100	< 100	< 100	< 100	< 100	< 100	56000
Tin (Sn)	< 10	< 10	< 10	< 10	< 10	< 10	180000
Organic tin ⁺⁺	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	12
Zinc (Zn)	< 100	< 100	106	< 100	< 100	< 100	46000

Remark: mg/kg = Milligram per kilogram based on dry weight of sample
< = less than

⁺ = Exceeded the Cr(III) /Cr (VI) / Organic tin limit, confirmation test would be suggested.

⁺⁺ = 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.

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- Organic tin test result was expressed as tributyl tin.
- Migration of Chromium (III) = Migration of total Chromium – Migration of Chromium(VI), when performed confirmation test for Chromium (VI)

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

= 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).

The results only apply to the items tested.

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

(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).

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4. Detection Of Amines Derived From Azocolourants And Azodyes:

By Gas Chromatographic - Mass Spectrometric (GC-MS) and High Performance Liquid Chromatographic (HPLC) analysis.

Test Method : EN 14362-1 : 2012 for textile material

	<u>Forbidden</u>	<u>CAS No.</u>	<u>Result in ppm</u>
			(1+2)
1.	4-Aminodiphenyl	92-67-1	N
2.	Benzidine	92-87-5	N
3.	4-Chloro-o-toluidine	95-69-2	N
4.	2-Naphthylamine	91-59-8	N
5.	O-Aminoazotoluene	97-56-3	N
6.	2-Amino-4-nitrotoluene	99-55-8	N
7.	P-chloroaniline	106-47-8	N
8.	2,4-Diaminoanisole	615-05-4	N
9.	4,4'-Diaminodiphenylmethane	101-77-9	N
10.	3,3'-Dichlorobenzidine	91-94-1	N
11.	3,3'-Dimethoxybenzidine	119-90-4	N
12.	3,3'-Dimethylbenzidine	119-93-7	N
13.	3,3'-Dimethyl-4,4'diaminodiphenylmethane	838-88-0	N
14.	P-cresidine	120-71-8	N
15.	4,4'-Methylene-bis(2-chloroaniline)	101-14-4	N
16.	4,4'-Oxydianiline	101-80-4	N
17.	4,4'-Thiodianiline	139-65-1	N
18.	O-Toluidine	95-53-4	N
19.	2,4-Toluylenediamine	95-80-7	N
20.	2,4,5-Trimethylaniline	137-17-7	N
21.	O-anisidine	90-04-0	N
22.	P-aminoazobenzene	60-09-3	N

Remark : N = Not Detected
 Detection Limit = 5 ppm
 Requirement = 30 ppm (MAX.)
 ppm = Parts Per Million = mg/kg

Remark 1: The above limits were quoted from Annex XVII Item 43 of the REACH Regulation (EC) NO. 1907/2006 and amendments.

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

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5. Colour Fastness To Rubbing (ISO 105 X12-2016, Using The 16mm Diameter Rubbing Finger) :

	<u>Result</u>	
	(1)	(2)
Dry	4-5	4-5
Wet	4-5	4-5

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

6. Colour Fastness To Water (BS EN ISO 105-E01-2013) :

	(1)	(2)
Colour Change	4-5	4-5
Colour Staining		
- Acetate	4-5	4-5
- Cotton	4-5	4-5
- Nylon	4-5	4-5
- Polyester	4-5	4-5
- Acrylic	4-5	4-5
- Wool	4-5	4-5

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

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Component(s) List:

- (1) Golden color fabric long plush(body)
- (2) Golden color fabric short plush(hands&feet)
- (3) Brown color fabric embroidery(nose&mouth)<0.2g
- (4) Multi color plastic(eyes)
- (5) Black color coating on fabric lable [sample weight:42.0mg]
- (6) White color fabric lable excluding black coating
- (7) White color fabric lable with black color coating<0.2g

Remark:the value in "[]" is the mass of the test portion, which between 10mg and 100mg, the quantity of the appropriate elements was calculated as if 100 mg test portion has been used. and the sample weight in above brackets were for soluble toxic elements analysis only.

Since the sample weight of the tested component (3)&(7) was less than 10 mg respectively, soluble heavy metals content analysis were not applicable.

Date Sample Received: Dec 02,2019

Testing Period: Dec 02,2019 To Dec 06,2019

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Photo



End of report