

Test Report

Number: SHAH01139284

Applicant: NINGBO TOOKY TOY CO.,LTD.
23-161,INNOVATION 128 BUSINESS VILLA, NO. 818 QIMING
ROAD, YINZHOU DISTRICT, NINGBO, 315100, ZHEJIANG
CHINA
Attn: AMANDA

Date: 17 Sep, 2019

Sample Description:

One(1) set of submitted sample said to be :
Item No. : **TKP001.**
Buyer : **PLAKKS ENTERTAINMENT SL**
Quantity : 1 set.
Labelled Age Group : 8+.
Packaging Provided By Applicant : Yes(Artwork).
Supplier : Ningbo Tookytoy Co.,Ltd.
Goods Exported to : Spain.
Country Of Origin : China.

Tests Conducted:

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

To be continued

Authorized By:
Intertek Testing Services Ltd, Shanghai, Ningbo Branch



Peter Chen
General Manager



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Conclusion:

<u>Tested Samples</u>	<u>Standard</u>	<u>Result</u>
Submitted Sample	EN71-1: 2014+ A1: 2018 for Mechanical And Physical Properties	Pass
	EN71-2: 2011+A1: 2014 Flammability Test	Pass
Tested components of submitted sample	EN 71-3:2013+A3:2018 on migration of certain elements	Pass
	EN 71-3:2013+A3:2018 on migration of certain elements & EU 2018/725 amending 2009/48/EC (effective from Nov 18,2019) for chromium (VI) migration	Pass
	Cadmium content requirement in Commission Regulation (EU) No. 494/2011 of 20 May 2011, (EU) No. 835/2012 of 18 September 2012 and (EU) No. 2016/217 of 16 February 2016 Amending Annex XVII Items 23 of the Reach Regulation (EC) No. 1907/2006	Pass
	Phthalates content requirement in Annex XVII Items 51&52 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009 & Amendment Commission Regulation (EU) 2018/2005 (formerly known as Directive 2005/84/EC)	Pass
	Polycyclic Aromatic Hydrocarbons (PAHs) content in Annex XVII Item 50 of the REACH Regulation (EC) No. 1907/2006 & amendment (EU) No. 1272/2013	Pass

To be continued

Authorized By:
Intertek Testing Services Ltd, Shanghai, Ningbo Branch



Peter Chen
General Manager



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Tests Conducted

1 Mechanical and Physical Test

As Per European Standard on Safety of Toys EN71-1: 2014+ A1: 2018.

Applicant's Specified Age Group for Testing: For ages 3 years and up

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	P
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
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 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	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



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Clause	Testing Items	Assessment
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	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 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
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

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Remark: P = Pass
NA = Not Applicable

Artwork of packaging was provided for testing.

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.

- All the above markings were presented on the artwork of packaging.

Date Sample Received: 06 Sep, 2019

Testing Period: 06 Sep, 2019 To 11 Sep, 2019

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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	
4.2.2	Beards, moustaches, wigs, etc., made from hair, pile or material with similar features, which protrude 50 mm or more from the surface of the toy	NA
4.2.3	Beards, moustaches, wigs, etc., made from hair, pile or material with similar features, which protrude less than 50 mm from the surface of the toy	NA
4.2.4	Full or partial moulded head masks	NA
4.2.5	Flowing elements of 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: 06 Sep, 2019

Testing Period: 06 Sep, 2019 To 11 Sep, 2019

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3 19 Toxic Elements Migration Test

(A) Test Result

As per EN 71-3:2013+A3:2018 and followed by Inductively Coupled Plasma Atomic Emission Spectrometry, Inductively Coupled Argon Mass Spectrometry, Ion Chromatography- Inductively Coupled Plasma-Mass Spectrometry, and Gas Chromatographic - Mass Spectrometry

Category (III): Scraped-off toy material

Element	Result (mg/kg)				Limit (mg/kg)
	(1) to (9)	(10)#	(11)	(12)#	
Aluminium (Al)	< 300	< 300	< 300	450	70000
Antimony (Sb)	< 10	< 10	< 10	< 10	560
Arsenic (As)	< 10	< 10	< 10	< 10	47
Barium (Ba)	< 10	< 10	< 10	< 10	18750
Boron (B)	< 50	< 50	< 50	< 50	15000
Cadmium (Cd)	< 5	< 5	< 5	< 5	17
Chromium (III) (Cr III) **	< 10	< 10	< 10	< 10	460
Chromium (VI) (Cr VI) **	< 0.025	< 0.025	< 0.025	< 0.025	0.2/0.053◎
Cobalt (Co)	< 10	< 10	< 10	< 10	130
Copper (Cu)	< 10	< 10	< 10	< 10	7700
Lead (Pb)	< 10	< 10	< 10	< 10	23
Manganese (Mn)	< 10	< 10	< 10	< 10	15000
Mercury (Hg)	< 10	< 10	< 10	< 10	94
Nickel (Ni)	< 10	< 10	< 10	< 10	930
Selenium (Se)	< 10	< 10	< 10	< 10	460
Strontium (Sr)	< 100	< 100	< 100	< 100	56000
Tin (Sn)	< 10	< 10	< 10	< 10	180000
Organic tin **	< 3.0	< 3.0	< 3.0	< 3.0	12
Zinc (Zn)	< 100	< 100	< 100	< 100	46000

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Tests Conducted

Element	Result (mg/kg)				Limit (mg/kg)
	(13)	(14)	(15)#	(16)	
Aluminium (Al)	< 300	< 300	< 300	< 300	70000
Antimony (Sb)	< 10	< 10	< 10	< 10	560
Arsenic (As)	< 10	< 10	< 10	< 10	47
Barium (Ba)	< 10	< 10	< 10	< 10	18750
Boron (B)	< 50	< 50	< 50	< 50	15000
Cadmium (Cd)	< 5	< 5	< 5	< 5	17
Chromium (III) (Cr III) **	< 10	< 10	< 10	< 10	460
Chromium (VI) (Cr VI) **	< 0.025	< 0.025	< 0.025	< 0.025	0.2/0.053◎
Cobalt (Co)	< 10	< 10	< 10	< 10	130
Copper (Cu)	< 10	< 10	< 10	< 10	7700
Lead (Pb)	< 10	< 10	< 10	< 10	23
Manganese (Mn)	< 10	79	< 10	< 10	15000
Mercury (Hg)	< 10	< 10	< 10	< 10	94
Nickel (Ni)	< 10	< 10	< 10	< 10	930
Selenium (Se)	< 10	< 10	< 10	< 10	460
Strontium (Sr)	< 100	< 100	< 100	< 100	56000
Tin (Sn)	< 10	< 10	< 10	< 10	180000
Organic tin **	< 3.0	< 3.0	< 3.0	< 3.0	12
Zinc (Zn)	< 100	< 100	< 100	< 100	46000

Element	Result (mg/kg)				Limit (mg/kg)
	(17)				
Aluminium (Al)	< 300				70000
Antimony (Sb)	< 10				560
Arsenic (As)	< 10				47
Barium (Ba)	< 10				18750
Boron (B)	< 50				15000
Cadmium (Cd)	< 5				17
Chromium (III) (Cr III) **	< 10				460
Chromium (VI) (Cr VI) **	< 0.025				0.2/0.053◎
Cobalt (Co)	< 10				130
Copper (Cu)	< 10				7700
Lead (Pb)	< 10				23
Manganese (Mn)	< 10				15000
Mercury (Hg)	< 10				94
Nickel (Ni)	< 10				930
Selenium (Se)	< 10				460
Strontium (Sr)	< 100				56000
Tin (Sn)	< 10				180000
Organic tin **	< 3.0				12
Zinc (Zn)	< 100				46000

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Tests Conducted

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.
- Unless specified, test results of Chromium (III), Chromium (VI) and Organic tin were derived from migration results of total chromium and tin respectively.
- 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)) were 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).

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).

Date Sample Received: 06 Sep, 2019

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Tests Conducted

4 Cadmium (Cd) content

With reference to methods EN 1122 (Method B), acid digestion method was used and total Cadmium content was determined by Inductively Coupled Argon Plasma Spectrometry.

Tested components	Result in %
(1+2+3)	ND
(4+5)	ND
(6)	ND
(7+8)	ND
(9)	ND
(11)	ND
(17)	ND

Requirement:	
Category	Limit (%)
Paints with codes [3208] and [3209]	0.01
Paints with codes [3208] [3209] with a zinc content exceeding 10 % by weight of the paint	0.1
Painted article	0.1
Plastic	0.01
Metal parts of jewellery & hair accessories	0.01

Remark: % = Percentage based on dry weight of sample
ND = not Detected (<0.0005%)

Tested Components: See component list in the last section of this report.

Date Sample Received: 06 Sep, 2019

Testing Period: 06 Sep, 2019 To 11 Sep, 2019

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Tests Conducted

5 Phthalate Content

With reference to ISO 8124-6: 2018 method A or C, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

I. Annex XVII Item 51

Tested Compound	CAS No.	Result (%w/w)			Limit (%w/w)
		(1+2+3)	(4+5)	(6)	(Max.)
Dibutyl phthalate (DBP)	84-74-2	ND	ND	ND	-
Diethyl hexyl phthalate (DEHP)	117-81-7	ND	ND	ND	-
Benzyl butyl phthalate (BBP)	85-68-7	0.01	ND	ND	-
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	-
Sum of DBP,DEHP,BBP and DIBP	--	0.01	ND	ND	0.1

Tested Compound	CAS No.	Result (%w/w)			Limit (%w/w)
		(7+8)	(9)	(11)	(Max.)
Dibutyl phthalate (DBP)	84-74-2	ND	ND	ND	-
Diethyl hexyl phthalate (DEHP)	117-81-7	ND	ND	ND	-
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	ND	-
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	-
Sum of DBP,DEHP,BBP and DIBP	--	ND	ND	ND	0.1

Tested Compound	CAS No.	Result (%w/w)			Limit (%w/w)
		(12)	(13)	(17)	(Max.)
Dibutyl phthalate (DBP)	84-74-2	ND	ND	ND	-
Diethyl hexyl phthalate (DEHP)	117-81-7	0.01	ND	ND	-
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	ND	-
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	ND	-
Sum of DBP,DEHP,BBP and DIBP	--	0.01	ND	ND	0.1

The above limit was quoted according to Annex XVII Item 51 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009 & Amendment Commission Regulation (EU) 2018/2005 for phthalate content in articles.

For toys and childcare articles, DIBP limit was quoted from Commission Regulation (EU) 2018/2005 effective from 7 July 2020.

For non-toys and non-childcare articles, DBP, DEHP, BBP, DIBP limit was quoted from Commission Regulation (EU) 2018/2005 effective from 7 July 2020.

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II. Annex XVII Item 52

Tested Compound	CAS No.	Result (%w/w)			Limit (%w/w) (Max.)
		(1+2+3)	(4+5)	(6)	
Di-n-octyl phthalate (DnOP)	117-84-0	ND	ND	ND	-
Diisononyl phthalate (DINP)	28553-12-0/ 68515-48-0	ND	ND	ND	-
Diisodecyl phthalate (DIDP)	26761-40-0/ 68515-49-1	ND	ND	ND	-
Sum of DINP, DNOP and DIDP	--	ND	ND	ND	0.1

Tested Compound	CAS No.	Result (%w/w)			Limit (%w/w) (Max.)
		(7+8)	(9)	(11)	
Di-n-octyl phthalate (DnOP)	117-84-0	ND	ND	ND	-
Diisononyl phthalate (DINP)	28553-12-0/ 68515-48-0	ND	ND	ND	-
Diisodecyl phthalate (DIDP)	26761-40-0/ 68515-49-1	ND	ND	ND	-
Sum of DINP, DNOP and DIDP	--	ND	ND	ND	0.1

Tested Compound	CAS No.	Result (%w/w)			Limit (%w/w) (Max.)
		(12)	(13)	(17)	
Di-n-octyl phthalate (DnOP)	117-84-0	ND	ND	ND	-
Diisononyl phthalate (DINP)	28553-12-0/ 68515-48-0	ND	ND	ND	-
Diisodecyl phthalate (DIDP)	26761-40-0/ 68515-49-1	ND	ND	ND	-
Sum of DINP, DNOP and DIDP	--	ND	ND	ND	0.1

The above limit was quoted according to Annex XVII Item 52 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009 for phthalate content in toys and childcare articles.

Remark: Detection Limit = 0.01%(w/w)
ND = Not Detected

Tested Components: See component list in the last section of this report.

Date Sample Received: 06 Sep, 2019 & 10 Sep, 2019

Testing Period: 06 Sep, 2019 & 10 Sep, 2019 To 11 Sep, 2019

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Tests Conducted

6 Polycyclic Aromatic Hydrocarbons (PAHs) Content

With reference to AfPS GS 2014:01 PAK, by solvent extraction and determined by Gas Chromatographic - Mass Spectrometry (GC/MS).

Toy for children /children care articles /other articles:

Compound	Result (mg/kg)				Requirement (mg/kg) (Max.)
	(1+2)	(3)	(4+5)	(6)	
Benzo(a)pyrene	ND	ND	ND	ND	0.5
Benzo(e)pyrene	ND	ND	ND	ND	0.5
Benzo(a)anthracene	ND	ND	ND	ND	0.5
Chrysene	ND	ND	ND	ND	0.5
Benzo(b)fluoranthene	ND	ND	ND	ND	0.5
Benzo(j)fluoranthene	ND	ND	ND	ND	0.5
Benzo(k)fluoranthene	ND	ND	ND	ND	0.5
Dibenzo(a,h)anthracene	ND	ND	ND	ND	0.5

Compound	Result (mg/kg)				Requirement (mg/kg) (Max.)
	(7+8)	(9)	(11)	(17)	
Benzo(a)pyrene	ND	ND	ND	ND	0.5
Benzo(e)pyrene	ND	ND	ND	ND	0.5
Benzo(a)anthracene	ND	ND	ND	ND	0.5
Chrysene	ND	ND	ND	ND	0.5
Benzo(b)fluoranthene	ND	ND	ND	ND	0.5
Benzo(j)fluoranthene	ND	ND	ND	ND	0.5
Benzo(k)fluoranthene	ND	ND	ND	ND	0.5
Dibenzo(a,h)anthracene	ND	ND	ND	ND	0.5

Remark : The above limit was quoted according to Annex XVII Items 50 of the REACH Regulation (EC) No.1907/2006 & amendment (EU) No. 1272/2013 for Polycyclic Aromatic Hydrocarbons (PAHs).

ND = Not Detected
Detection limit = 0.2 mg/kg

Tested components: See component list in the last section of this report.

Date Sample Received: 06 Sep, 2019

Testing Period: 06 Sep, 2019 To 11 Sep, 2019

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Tests Conducted

Components:

- (1) Varnish coating on wood.
- (2) Black coating on wood(logo). <10mg
- (3) Red coating on wood.
- (4) Deep blue coating on wood.
- (5) Yellow coating on wood.
- (6) White coating on plastic. <10mg
- (7) Green plastic(disc).
- (8) White plastic(goal).
- (9) White coating on fabric.
- (10) Green felt fabric.
- (11) Multi-color coating on paper(sticker).
- (12) White adhesive paper(sticker).
- (13) Natural color plywood.
- (14) Natural color wood.
- (15) White fabric with multi-color printing(bag).
- (16) White rope(bag).
- (17) White foam.

End of report

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