20020

CMA Testing and Certification Laboratories
廠商會檢定中心

TEST REPORT

Report No : AS2005726(0) Date: 25 Apr 2014

Application No : LS205531(5)

Applicant :

Sample Description	:	One (1) submitted sample stated to be:		
Sample Name	:	Zoo Sound Puzzles	P.O. No.	: 2084
Item/Lot No.	:	10269/ 269	PDC	: 14033
Age grade	:	2+	Shipment Quantity	: 1800
Factory Name	:	DW	Exported to	: NA
Country of Origin	:	China	Carton No	: NA
Customer	:			: Annual UK

Date Received : 10 Apr 2014.
15 Apr 2014.

Test Period : 10 Apr 2014 to 23 Apr 2014.

Test Requested :
I. Test in accordance with EN71 : Part 1 : 2011+A2:2013 - Physical and Mechanical Properties;
II. Test in accordance with EN71 : Part 2 : 2011 - Flammability test.
III. Test with reference to EN71 : Part 3 : 2013 - Migration of certain elements (Screening test for Aluminium, Arsenic, Boron, Barium, Cadmium, Cobalt, total migrated Chromium, Copper, Mercury, Manganese, Nickel, Lead, Antimony, Selenium, total migrated Tin, Strontium and Zinc content). Speciation test for Chromium (III) and Chromium (VI).

Test Method : As stated in above specifications. With reference to EN71 : Part 3 :2013. Heavy metal analysis was determined by Atomic Absorption Spectrophotometry and/or Inductively Coupled Plasma Spectrometry (ICP-OES) and/or Inductively Coupled Plasma Mass Spectrometry (ICP-MS) and/or Liquid Chromatograph-Inductively Coupled Plasma Mass Spectrometry (LC-ICP-MS).

Test Result : Refer to the results on page 2 to 10.

Conclusion :

	Test Item	Result
I.	EN71 : Part 1 : 2011+A2:2013	Passed
II.	EN71 : Part 2 : 2011	Passed
III.	Soluble heavy metal of client's specification	Passed

For and on behalf of
Yubiao Testing and Certification Laboratory (Shenzhen) Limited

Authorized Signature : Grace

Sun Xiaoqing / Grace
Assistant Manager
Toys and Material Division

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Test Result :

Labelled age group : For ages over 2 years

No. of samples tested : Two (2) sets

I. EN71 : Part 1 : 2011+A2:2013

Clause	Title/Description	Remark*
4	General requirements	
4.1	Material cleanliness	C
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	C
4.8	Points and metallic wires	C
4.9	Protruding parts	NA
4.10	Parts moving against each other	NA
4.10.1	Folding and sliding mechanisms	NA
4.10.2	Driving mechanisms	NA
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

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Test Result :

I. EN71 : Part 1 : 2011+A2:2013

Clause	Title/Description	Remark*
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
4.15.5	Toy scooters	NA
4.16	Heavy immobile toys	NA
4.17	Projectiles	NA
4.17.1	General	NA
4.17.2	Projectile toys without stored energy	NA
4.17.3	Projectile toys with stored energy	NA
4.17.4	Bows and arrows	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	C (refer to Appendix for details)
4.21	Toys containing a non-electrical heat source	NA
4.22	Small balls	NA
4.23	Magnets	NA
4.23.1	General	NA
4.23.2	Toys other than magnetic/electrical experimental sets intended for children over 8 years	NA
4.23.3	Magnetic/electrical experimental sets intended for children over 8 years	NA

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Test Result :

I. EN71 : Part 1 : 2011+A2:2013

Clause	Title/Description	Remark*
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	C
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 toy	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
6	Packaging	NA
7	Warnings, markings and instructions for use	
7.1	General	C
7.2	Toys not intended for children under 36 months	NA
7.3	Latex balloons	NA
7.4	Aquatic toys	NA

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Test Result :

I. EN71 : Part 1 : 2011+A2:2013

Clause	Title/Description	Remark*
7.5	Functional toys	NA
7.6	Hazardous sharp functional edges and points	NA
7.7	Projectiles	NA
7.7.1	Toys with projectiles which are able to discharge an object other than that provided with the toy	NA
7.7.2	Toys capable of discharging a projectile with a kinetic energy greater than 0.08 J	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 intended to be attached to or 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

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Test Result :

II. EN71 : Part 2 : 2011

Clause	Title/Description	Remark*
4.1	General requirements	C
	Note 1 : No cellulose nitrate and material with same behaviour in fire was detected	
4.2	Toys to be worn on the head	NA
4.3	Toys 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

* Abbreviation : C = Complied
NA = Not Applicable

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Test Result :

EN 71 : Part 3 : 2013

Scraped-off toy material

Screening Test

Test Item	EN 71 Part 3:2013 Limit (mg/kg)	Client Limit (mg/kg)	Result (mg/kg)				
			Sample				
			1	2	3	4	5
Al	70,000	70,000	<100	<100	<100	<100	<100
As	47	25	<5	<5	<5	<5	<5
B	15,000	15,000	<100	<100	<100	<100	<100
Ba	18,750	1,000	<20	<20	<20	<20	<20
Cd	17	17	<5	<5	<5	<5	<5
Co	130	130	<5	<5	<5	<5	<5
Total Migrated Cr	0.2[b]	0.2[b]	<0.15	-*	<0.15	-*	<0.15
Cu	7,700	7,700	<5	<5	<5	<5	<5
Hg	94	60	<5	<5	<5	<5	<5
Mn	15,000	15,000	<100	<100	<100	<100	<100
Ni	930	930	<5	<5	<5	<5	<5
Pb	160	90	<5	<5	<5	<5	<5
Sb	560	60	<5	<5	<5	<5	<5
Se	460	460	<5	<5	<5	<5	<5
Total Migrated Sn	12[c]	12[c]	<5	<2.5	<5	<2.5	<5
Sr	56,000	56,000	<100	<100	<100	<100	<100
Zn	46,000	46,000	<100	<100	<100	<100	<100

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EN 71 : Part 3 : 2013

Scraped-off toy material

Screening Test

Test Item	EN 71 Part 3:2013 Limit (mg/kg)	Client Limit (mg/kg)	Result (mg/kg)				
			Sample				
			6	7	8	9	10
Al	70,000	70,000	<100	<100	<100	415	622
As	47	25	<5	<5	<5	<5	<5
B	15,000	15,000	<100	<100	<100	<100	<100
Ba	18,750	1,000	<20	<20	<20	<20	<20
Cd	17	17	<5	<5	<5	<5	<5
Co	130	130	<5	<5	<5	<5	<5
Total Migrated Cr	0.2[b]	0.2[b]	<0.15	<0.15	<0.15	-*	-*
Cu	7,700	7,700	<5	<5	<5	<5	<5
Hg	94	60	<5	<5	<5	<5	<5
Mn	15,000	15,000	<100	<100	<100	<100	<100
Ni	930	930	<5	<5	<5	<5	<5
Pb	160	90	<5	<5	<5	<5	<5
Sb	560	60	<5	<5	<5	<5	<5
Se	460	460	<5	<5	<5	<5	<5
Total Migrated Sn	12[c]	12[c]	<5	<5	<5	<2.5	<2.5
Sr	56,000	56,000	<100	<100	<100	<100	<100
Zn	46,000	46,000	<100	<100	<100	<100	<100

Speciation Test

Test Item	EN 71 Part 3:2013 Limit (mg/kg)	Client Limit (mg/kg)	Result (mg/kg)			
			Sample			
			2	4	9	10
Cr(III)	460	460	<20	<20	<20	<20
Cr(VI)	0.2	0.2	<0.15	<0.15	<0.15	<0.15

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Test Result :

EN 71 : Part 3 : 2013

Scraped-off toy material

Note :
- All results are in mg/kg
- < denotes less than
- ≥ denotes greater than or equal to
- Al = Aluminium; As = Arsenic; B = Boron; Ba = Barium; Cd = Cadmium; Co = Cobalt; Cr = Chromium; Cu = Copper; Hg = Mercury; Mn = Manganese; Ni = Nickel; Pb = Lead; Sb = Antimony; Se = Selenium; Sn = Tin; Sr = Strontium; Zn = Zinc
- For samples of total migrated Cr content lower than allowed limit of Cr(VI), no speciation test for Cr(III) and Cr(VI) were required
- For samples of total migrated Sn content lower than allowed limit of organic tin, no organic tin test was required
- * denotes Total Migrated Cr content was higher than allowed limit of Cr(VI); hence, speciation test for Cr(III) and Cr(VI) were conducted
- The samples with sample weight less than 100 mg, were assumed to be 100 mg in calculation (except glass/ceramic/metallic materials)
- [b] Limit of Cr (VI)
- [c] Limit of organic tin

Sample	Description	Sample weight
1	Black coating (removable puzzle, PDC No)	38.3 mg
2	Beige thick plywood (puzzle base, removable puzzle)	≥100 mg
3	Brown fiber board(puzzle base)	≥100 mg
4	Beige thin plywood (puzzle base)	≥100 mg
5	Ivory plastic (battery box)	≥100 mg
6	Red plastic (peg)	≥100 mg
7	Clear plastic (electrical polymer components)	≥100 mg
8	White paper label with multi-color coating (puzzle base, removable puzzle)	≥100 mg
9	White paper barcode label with multi-color coating(barcode label)	≥100 mg
10	White paper battery label with black coating(battery label)	≥100 mg

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Appendix

I. EN71 : Part 1 : 2011+A2:2013

Clause Details of Test Result

4.20

	Maximum sound pressure level measured (dB)		
	Average dBA	Peak dBC	Exposure category
			1, 2, 3
Sample a	74.4	87.5	2

Note 1 : Maximum permissible sound pressure level (Exposure Level 1/2/3)
Clause 4.20.2.3 : Table-top or floor toys = 80/85/90 dBA and 110 dBC

Note 2 : Sample a = Zoo Sound Puzzles

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***** End of Report *****

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