

Test Report

Number: SHAH00902247

Applicant: HANGZHOU ZHIBANG TOYS FACTORY
No. 22 Qiaoyuan Rd, Xiaoshan District
Hangzhou, China
Attn: SHI LEI

Date: 16 Jan, 2018

Sample Description:

Three (3) pieces of submitted sample said to be :

Item Name : **Magnetic Blocks with Running Ball**
Age Grading : 3+
Manufactory/ Supplier/ Vendor : Hangzhou Zhibang Toys Factory
Goods Exported To : USA
Country Of Origin : Hangzhou, Zhejiang

Tests Conducted:

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

Conclusion:

<u>Tested Samples</u>	<u>Standard – U.S. ASTM F963-17</u>	<u>Result</u>
Submitted Sample Set	Physical And Mechanical Tests	Pass
	Flammability Test of Materials Other Than Textile Materials	Pass
Tested component(s) of submitted sample	<u>Standard</u> U.S. ASTM F963-16 section 4.3.5.2(2)(b) for soluble elements content for non-surface coating materials	Pass

To be continued

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



Leo Shi
General Manager



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Tests Conducted

1. Physical and Mechanical Tests

As per ASTM Standard Consumer Safety Specification for Toy Safety F963-17.

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

The submitted samples were undergone the use and abuse tests in accordance with the Federal Hazardous Substances Act (FHSA), Title 16, Code of Federal Regulations: -

<u>Test</u>	<u>FHSA</u>	<u>Parameter</u>
Impact Test	Section 1500.53(b)	4 x 3.0 ft
Torque Test	Section 1500.53(e)	4 in-lbf
Tension Test	Section 1500.53(f)	15 lbf
Compression Test	Section 1500.53(g)	30 lbf

<u>Section</u>	<u>Testing Items</u>	<u>Assessment</u>
4.1	Material Quality	P
4.5	Sound-Producing Toys	NA
4.6.1	Toys Intended for Children under 36 Months (Small Objects)	NA
4.6.2	Mouth-Actuated Toys	NA
4.6.3	Toys And Games for 36 Months to 72 Months (Small Part Warning)	NA
4.7	Accessible Edges	P
4.8	Projections	NA
4.9	Accessible Points	P
4.10	Wires Or Rods	NA
4.11	Nails And Fasteners	NA
4.12	Plastic Film	NA
4.13	Folding Mechanisms and Hinges	NA
4.14	Cords, Straps, and Elastics	NA
4.15	Stability and Over-Load Requirements	NA
4.16	Confined Spaces	NA
4.17	Wheels, Tires and Axles	NA
4.18	Holes, Clearance, and Accessibility of Mechanisms	NA
4.19	Simulated Protective Devices	NA
4.20	Pacifiers	NA
4.21	Projectile Toys	NA
4.22	Teethers and Teething Toys	NA
4.23	Rattles	NA
4.24	Squeeze Toys	NA
4.25	Battery-Operated Toys	NA
4.26	Toys Intended to be Attached to a Crib or Playpen	NA
4.27	Stuffed and Beanbag-Type Toys	NA
4.28	Stroller and Carriage Toys	NA
4.29	Art Materials	NA
4.30	Toy Gun Marking	NA
4.31	Balloons	NA



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Section	Testing Items	Assessment
4.32	Certain Toys with Nearly Spherical Ends	NA
4.33	Marbles	NA
4.34	Balls	P
4.35	Pompoms	NA
4.36	Hemispheric-Shaped Objects	NA
4.37	Yo Yo Elastic Tether Toys	NA
4.38	Magnets	P
4.39	Jaw Entrapment in Handles and Steering Wheels	NA
4.40	Expanding Materials	NA
4.41	Toy Chests	NA
5	Labelling Requirement	P
6	Instructional Literature	NA
7	Producer's Markings	#
	- Name of Producer/Distributor	No
	- Address	No

Remark: The submitted samples were undergone the tests in accordance with Section 8.5 through Section 8.18 and 8.21 through 8.26 on normal use, abuse and specific tests for different types of toys whichever is applicable.

P = Pass

NA = Not Applicable

= The final product or its packaging must be marked with the name and address of the producer or distributor as specified in section 7.1 of U.S. ASTM F963.

2.Flammability Test

As per section 4.2 of the ASTM Standard Consumer Safety Specification On Toy Safety F963-17.

Result = Ignited But Self-Extinguished before Burn Rate Could be Determined

3.Soluble Elements Analysis In Non-Surface Coating Materials (Substrate Except Modelling Clay)

As per section 4.3.5.2(2)(b) of the ASTM standard consumer safety specification on toy safety F963-16, acid extraction method was used and heavy metal elements migration content were determined by Inductively Coupled Argon Plasma Spectrometry.

	Result (ppm)						Limit (ppm)
	(1)	(2)	(3)	(4)	(5)	(6)	
Sol. Barium (Ba)	<5	<5	<5	<5	<5	<5	1000
Sol. Lead (Pb)	<5	<5	<5	<5	13	<5	90
Sol. Cadmium (Cd)	<5	<5	<5	<5	<5	<5	75
Sol. Antimony (Sb)	<5	<5	<5	<5	<5	<5	60
Sol. Selenium (Se)	<5	<5	<5	<5	<5	<5	500
Sol. Chromium (Cr)	<5	<5	<5	<5	<5	<5	60
Sol. Mercury (Hg)	<5	<5	<5	<5	<5	<5	60
Sol. Arsenic (As)	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	25



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Remark: Sol. = soluble
ppm = parts per million = mg/kg
spl.wt. = sample weight

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

The sample weight in bracket was / were for soluble heavy elements analysis only.

Remark: Since the sample weight of the component was less than 10 mg, soluble elements analysis was not conducted. Only total Lead content was tested.

Assessment: All accessible components were found to be within the exemption list under 16 CFR part 1500.91 (d), no test was conducted on the submitted sample.

Components List:

Tested components:

- (1) Semitransparent blue plastic
- (2) Semitransparent yellow plastic
- (3) Transparent plastic
- (4) Blue plastic
- (5) Blue coating on ball
- (6) Magnet



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Picture 1: Submitted Sample

Date Sample Received: Dec 27,2017
Testing Period: _Dec 27,2017 to Jan 16,2018

End Of Report

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