



TEST REPORT

NO.: EM240031538CC

Date: Apr. 26, 2024

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Applicant : YUNHE XINDANDI ARTS & CRAFTS CO., LTD.
Address : CHAOYANG WEST RD 50, YUNHE, LISHUI ZHEJIANG CHINA
Sample Name : SHAPES PUZZLE
Sample Description : SHAPES PUZZLE
Model Number : TS 5706 **Product ASIN:** /
Manufacturer : YUNHE XINDANDI ARTS & CRAFTS CO., LTD. **Material:** Plywood
Address : CHAOYANG WEST RD 50, YUNHE, LISHUI ZHEJIANG CHINA
Manufacturing Date : Apr. 01, 2024 **Phone:** +86-578-5123022
Supplier : YUNHE XINDANDI ARTS & CRAFTS CO., LTD. **Batch No.:** /
Importer : HANGZHOU MAOXIANG DIANZI SHANGWU LIMITED
204, RD 1500 WENYI XILU, YUHANG, HANGZHOU, CHINA
Country of Origin : CHINA **Country of Destination:** USA **Test Type:** Authorized Test
Sample received date : Apr. 23, 2024 **Testing period:** Apr. 23, 2024 - Apr. 26, 2024
Client Specified Age Grading: Over 3 years old **Labeled Age Grading:** Over 3 years old
Age Group Applied in Testing: Over 3 years old

Test Requested:

ASTM Standard Consumer Safety Specification on Toy Safety F963-23

- ASTM F963-23: Physical & Mechanical Tests

- ASTM F963-23: Flammability Tests

- ASTM F963-23: Total Lead & Soluble Heavy Metal Contents

CPSIA section 101(a)(2) - Lead in accessible substrate materials

CPSIA section 101(f) - Lead in paint / similar surface coating material

CPSIA section 108 - Phthalates (16 CFR 1307)

Sharp points, sharp edge and small parts (Normal use and abuse test)

CPSA Section 14(a)(5) Tracking Labels for Children's Products (15 USC §2063(a)(5) (CPSA))

Conclusion

Pass

Pass

Pass

Pass

Pass

Pass

Pass

Pass

Signed for and on behalf of
EMTEK(Guangzhou) Co., Ltd.

Prepared by:

Mika

Wu Bilu, Mika

Assistant engineer

Reviewed by:

Jay

Yu Chunhua, Jay

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Approved by:

Hu Zhimeng

Hu Zhimeng, Howar

Authorized signatory

Apr. 26, 2024

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ASTM Standard Consumer Safety Specification on Toy Safety F963-23

Test Results:

- Mechanical and physical hazards

Ref: ASTM F963-23 Section 4; 5; 6; 7 and 8

Section	Description	Result
4	Safety requirements	
4.1	Material Quality (Visual Examination)	Pass
4.2	Flammability Test	Pass
4.3	Toxicology	Pass
4.4	Expansion Material	Pass
4.6	Small Objects	Pass
4.7	Accessible Edges	Pass
4.8	Projections	Pass
4.9	Accessible Points	Pass
4.11	Nails and Fasteners	Pass
4.12	Packaging Film	Pass
4.14	Cords and elastics in toys	Pass
4.24	Squeeze toys	Pass
5	Safety Labelling Requirements	
5.2	Age Grading Labeling	Pass
5.16	Promotional Materials	Pass
7	Producers Markings	
7.1	Producer's Marking	Pass
8	Test Methods	
8.5	Normal Use Testing	Pass
8.7	Impact Test	Pass
8.8	Torque Tests for Removal of Components	Pass
8.9	Tension Test for Removal of Components	Pass
8.10	Compression Test	Pass

- Flammability of materials other than textiles

Ref: ASTM F963-23 Section 4.2

Method used: Federal Hazardous Substances Act (FHSA) 16 CFR 1500.44

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Requirement: A toy / component is considered a "Flammable solid" if it ignites and burns with a self-sustaining flame at a rate greater than 0.10 inch/sec along its major axis.

Sample	Burning Rating (inch/sec)
SHAPES PUZZLE	0.05

- DNI = Did Not Ignite

- Total Lead & Soluble Heavy Metal Contents

Test Requested:

- As specified by client, to determine the Lead content in the submitted sample in accordance with Consumer Product Safety Improvement Act of 2008 (H.R. 4040) section 101--Prohibition on sale of certain products containing lead.
- ASTM F963-23 Section 4.3.5.1 and 4.3.5.2 Soluble Heavy Metal Contents

Test Method:

Test Item(s)	Test Method	Measuring Instrument	MDL
Total Lead (Pb)	CPSC-CH-E1001-08.1 CPSC-CH-E1002-08.1 CPSC-CH-E1003-09.1	ICP-OES	2.0 mg/kg
Soluble Heavy Metal Contents	ASTM F963-23 Section 8.3	ICP-OES	2.0 mg/kg

Test Results:

Soluble Element	Cadmium (Cd)	Lead (Pb)	Chromium (Cr)	Mercury (Hg)	Antimony (Sb)	Barium (Ba)	Arsenic (As)	Selenium (Se)
Limit	75	90	60	60	60	1000	25	500
Code	Specimen's testing result (mg/kg)							
1	<2	<2	<2	<2	<2	<2	<2	<2
2	<2	<2	<2	<2	<2	<2	<2	<2
3	<2	<2	<2	<2	<2	<2	<2	<2
4	<2	<2	<2	<2	<2	<2	<2	<2
5	<2	<2	<2	<2	<2	<2	<2	<2
6	<2	<2	<2	<2	<2	<2	<2	<2
7	<2	<2	<2	<2	<2	<2	<2	<2
8	<2	<2	<2	<2	<2	<2	<2	<2
9	<2	<2	<2	<2	<2	<2	<2	<2
10#	<2	<2	<2	<2	<2	<2	<2	<2
11#	<2	<2	<2	<2	<2	<2	<2	<2

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CPSIA section 101(a)(2) - Lead in accessible substrate materials (Including Children's Metal Jewelry)

Test Item(s)	Unit	MDL	Limit	Result	Result	Result
				1	9	11#
Total Lead (Pb)	mg/kg	20	100	N.D.	27.2	N.D.

Lead in paint / similar surface coating material (CPSIA section 101(f))

Test Item(s)	Unit	MDL	Limit	Result	Result	Result	Result
				2	3	4	5
Total Lead (Pb)	mg/kg	20	90	N.D.	N.D.	N.D.	N.D.

Test Item(s)	Unit	MDL	Limit	Result	Result	Result	Result
				6	7	8	10#
Total Lead (Pb)	mg/kg	20	90	N.D.	N.D.	N.D.	N.D.

Limit applies to a children's product manufactured after 14 August 2011(Public Law 112-28 (HR 2715, 112th Congress) amending CPSIA)

CPSIA section 108 - Phthalates (16 CFR 1307)

Test Item(s)	CAS No.	Unit	MDL	Limit	Result	Result	Result
					1	10#	11#
Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	mg/kg	30	1000	N.D.	N.D.	N.D.
Dibutyl phthalate (DBP)	84-74-2	mg/kg	30	1000	N.D.	N.D.	N.D.
Benzylbutyl phthalate (BBP)	85-68-7	mg/kg	30	1000	N.D.	N.D.	N.D.
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	mg/kg	50	1000	N.D.	N.D.	N.D.
Diisobutyl phthalate (DIBP)	84-69-5	mg/kg	30	1000	N.D.	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	84-61-7	mg/kg	50	1000	N.D.	N.D.	N.D.
Di-N-pentyl phthalate (DPENP)	131-18-0	mg/kg	50	1000	N.D.	N.D.	N.D.
Di-n-hexyl phthalate (DHEXP) (DnHP)	84-75-3	mg/kg	50	1000	N.D.	N.D.	N.D.
Di-n-octyl phthalate (DNOP)	117-84-0	mg/kg	30	1000	N.D.	N.D.	N.D.
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	mg/kg	50	1000	N.D.	N.D.	N.D.

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Sharp points, sharp edge and small parts (Normal use and abuse test)

Test Method: U.S. code of Federal Regulations Title 16 Part 1500.50, the hazards of sharp points, sharp edge and small parts are assessed both before and after applicable use and abuse tests.

Age group for testing: Over 3 years old

Test Results:

Normal use and abuse test	Result		
	Sharp point 1500.48	Sharp edge 1500.49	Small part 1501
As rec'd & normal use (1500.50)	Pass	Pass	Pass
Impact test (1500.51b, 1500.53b)	Pass	Pass	Pass
Bite test (1500.53c)	Pass	Pass	Pass
Flexure test (1500.53d)	Pass	Pass	Pass
Torque test (1500.53e)	Pass	Pass	Pass
Tension test (1500.53f)	Pass	Pass	Pass
Compression test (1500.53g)	Pass	Pass	Pass

CPSA Section 14(a)(5) Tracking Labels for Children's Products (15 USC §2063(a)(5) (CPSA))

Applicable Section	Description	Result
(a)(5) (A)	Effective 1 year after the date of enactment of the Consumer Product Safety Improvement Act of 2008, the manufacturer of a children's product shall place permanent, distinguishing marks on the product and its packaging, to the extent practicable, that will enable -	Pass
(i)	The manufacturer to ascertain the location and date of production of the product, cohort information (including the batch, run number, or other identifying characteristic), and any other information determined by the manufacturer to facilitate ascertaining the specific source of the product by reference to those marks; and	Pass
(ii)	The ultimate purchaser to ascertain the manufacturer or private labeler, location and date of production of the product, and cohort information (including the batch, run number, or other identifying characteristic).	Pass
(B)	The Commission may, by regulation, exclude a specific product or class of products from the requirements in subparagraph (A) if the Commission determines that it is not practicable for such product or class of products to bear the marks required by such subparagraph. The Commission may establish alternative requirements for any product or class of products excluded under the preceding sentence consistent with the purposes described in clauses (i) and (ii) of subparagraph (A).	NA

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Applicable Section	Description	Result
(b)	The Commission may by rule prescribe reasonable testing programs for any product which is subject to a consumer product safety rule under this Act, or a similar rule, regulation, standard, or ban under any other Act enforced by the Commission, and for which a certificate is required under subsection (a). Any test or testing program on the basis of which a certificate is issued under subsection (a) may, at the option of the person required to certify the product, be conducted by an independent third party qualified to perform such tests, unless the Commission, by rule, requires testing by an independent third party for a particular rule, regulation, standard, or ban, or for a particular class of products.	Pass
(c)	The Commission may by rule require the use and prescribe the form and content of labels which contain the following information (or that portion of it specified in the rule) -	Pass
(1)	The date and place of manufacture of any consumer product.	Pass
(2)	The cohort information (including the batch, run number, or other identifying characteristic) of the product.	Pass
(3)	A suitable identification of the manufacturer of the consumer product, unless the product bears a private label in which case it shall identify the private labeler and shall also contain a code mark which will permit the seller of such product to identify the manufacturer thereof to the purchaser upon his request.	Pass
(4)	In the case of a consumer product subject to a consumer product safety rule, a certification that the product meets all applicable consumer product safety standards and a specification of the standards which are applicable. Such labels, where practicable, may be required by the Commission to be permanently marked on or affixed to any such consumer product. The Commission may, in appropriate cases, permit information required under paragraphs (1) and (2) of this subsection to be coded.	Pass
(d)	REQUIREMENT FOR ADVERTISEMENTS.-No advertisement for a consumer product or label or packaging of such product may contain a reference to a consumer product safety rule or a voluntary consumer product safety standard unless such product conforms with the applicable safety requirements of such rule or standard.	Pass
(e)	WITHDRAWAL OF ACCREDITATION -	Pass
(f)	DEFINITIONS. -- In this section	Pass
(g)	REQUIREMENTS FOR CERTIFICATES. -- IDENTIFICATION OF ISSUER AND CONFORMITY ASSESSMENT BODY. -- Every certificate required under this section shall identify the manufacturer or private labeler issuing the certificate and any third party conformity assessment body on whose testing the certificate depends. The certificate shall include, at a minimum, the date and place of manufacture, the date and place where the product was tested, each party's name, full mailing address, telephone number, and contact information for the individual responsible for maintaining records of test results.	Pass
(h)	RULE OF CONSTRUCTION.	Pass
(i)	ADDITIONAL REGULATIONS FOR THIRD PARTY TESTING	Pass

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Specimen Description:

Code	Specimen Description	Code	Specimen Description
1	Wood part	7	Green paint
2	Yellow paint	8	Blue paint
3	Dark blue paint	9	Iron box
4	Orange paint	10#	Coating part (Iron box) (Mixed)
5	Red paint	11#	Card with printing (Mixed)
6	Purple paint		

Note:

- 1mg/kg = 1ppm = 0.0001%
- MDL = Method Detection Limit, N.D. = Not Detected (<MDL)
- Results of soluble elements shown are of the adjusted analytical results
- # The admixture of specimen is tested as a whole (part) which according to the applicant's request, the result of report as an average value. The testing of each single specimen may have the obvious difference, and the result may exceed the number in this report. The applicant will undertake all differences and risk.
- Photo is included

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Photograph of Sample



SHAPES PUZZLE

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