

Test Report

Number: SHAH01653977

Applicant: CUBO TOYS PRIVATE LIMITED
UNIT 1603, 16TH FLOOR, THE L. PLAZA,
367 - 375 QUEEN'S ROAD CENTRAL, SHEUNG
WAN, HONG KONG

Date: 02 Feb, 2024

Sample Description:

One (1) set of submitted sample said to be :
Item Name : **Cubo Montessori Box.**
Quantity : 1 Set.
Labelled Age Group : 6M+.
Packaging Provided By Applicant : Yes(Artwork).
Buyer : KAREN VILLARD.
Goods Exported To : US.
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 .Zhejiang, Ningbo Branch



Bobo Yao
Assistant General Manager



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Conclusion:

<u>Tested Samples</u> Submitted Sample	<u>Standard</u>	<u>Result</u>
	U.S. ASTM F963-17 Physical And Mechanical Tests	Pass
	U.S. ASTM F963-17 Flammability Test of Materials Other Than Textile Materials	Pass
	U.S. CFR Title 16 (CPSC Regulations) Mechanical and Physical Tests	Pass
	U.S. CFR Title 16 (CPSC Regulations) Part 1500.3(c)(6)(vi) Flammability Test On Rigid and Pliable Solids	Pass
	U.S. ASTM F963-23 Physical and Mechanical Tests.	Pass
	U.S. ASTM F963-23 Flammability Test of Materials other than Textile Materials	Pass
Tested Component of Submitted Sample	U.S. ASTM F963-17 for total Lead content in surface coating	Pass
	U.S. ASTM F963-23 for total Lead content in surface coating	Pass
	U.S. ASTM F963-17 on soluble heavy elements test	Pass
	U.S. ASTM F963-23 for soluble elements content	Pass
	ASTM F963-23 section 4.3.8 on Phthalates content	Pass
	U.S. CFR title 16(CPSC regulations) Part 1303 total Lead content	Pass
	U.S. Consumer Product Safety Improvement Act 2008 title I, section 101 for total Lead content in surface coating	Pass
	US Consumer Product Safety Improvement Act 2008 Title I, Sec 108(a) & (b)(3) and US 16 CFR Part 1307 for Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates	Pass
	US California Proposition 65 -- Phthalate content	Pass
	California Proposition 65 for Toys , Consent Judgement No.RG-356892 -Total Lead (Pb) content	Pass

To be continued

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Assistant 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 6 months 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 1500.51(b)	10 x 4.5 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)	P
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



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Section	Testing Items	Assessment
4.31	Balloons	NA
4.32	Certain Toys with Nearly Spherical Ends	NA
4.33	Marbles	NA
4.34	Balls	NA
4.35	Pompoms	NA
4.36	Hemispheric-Shaped Objects	NA
4.37	Yo Yo Elastic Tether Toys	NA
4.38	Magnets	NA
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	P
7	Producer's Markings	
	- Name of Producer/Distributor (Package&Toy)	Yes
	- Address (Package&Toy)	Yes

Remark: The submitted samples were undergone the tests in accordance with section 8.5 through section 8.16 and 8.20 through 8.30 on normal use, abuse and specific tests for different types of toys whichever is applicable.

P = Pass

NA = Not Applicable

Artwork of packaging was provided for testing.

Date Sample Received: 18 Jan, 2024 & 29 Jan, 2024

Testing Period: 18 Jan, 2024 To 29 Jan, 2024

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Tests Conducted

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

Date Sample Received: 18 Jan, 2024

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Tests Conducted

3 Physical and Mechanical Test

As per 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.

Applicant's Specified Age Group for Testing: For ages 6 months and up

	<u>No. of Sample Tested</u>	<u>Sharp Point</u> (1500.48)	<u>Sharp Edge</u> (1500.49)	<u>Small Part</u> (1501)
As Received	1	P	P	P
Impact (1500.51(b))	1	P	P	P
Flexure (1500.53(d))	0	NA	NA	NA
Torque (1500.53(e))	1	P	P	P
Tension (1500.53(f))	1	P	P	P
Compression (1500.53(g))	1	P	P	P

Remark: P = Pass
NA = Not Applicable

Date Sample Received: 18 Jan, 2024
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Tests Conducted

4 Flammability Test

As per U.S. Code of Federal Regulations title 16 Part 1500.44 for rigid and pliable solids.

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

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Tests Conducted

5 Physical and Mechanical Tests

Test standard: ASTM Standard Consumer Safety Specification for Toy Safety F963-23.

Applicant's specified age group for testing: For ages 6 months 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 1500.51(b)	10 x 4.5 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
The submitted samples were undergone the tests in accordance with section 8.5 through section 8.16 and 8.20 through 8.30 on normal use, abuse and specific tests for different types of toys whichever is applicable.		

Section	Requirement	Result
4.1	Material Quality (Visual check on cleanliness)	P
4.5	Sound-producing toys	NA
4.6.1	Toys intended for children under 36 months (Small objects)	P
4.6.2	Mouth-actuated toys	NA
4.6.3	Toys and games for children at least 36 months but less than 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 (such as helmets, hats and goggles)	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



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Section	Requirement	Result
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
4.32	Certain toys with nearly spherical ends	NA
4.33	Marbles	NA
4.34	Balls	NA
4.35	Pompoms	NA
4.36	Hemispheric-shaped objects	NA
4.37	Yoyo elastic tether toys	NA
4.38	Magnets	NA
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	P
7	Producer's markings	
7.1	Name of producer/distributor	Yes
	Address	Yes
7.3	Toy chests	
7.3.1	Name and address of manufacturer/distributor/seller	NA
7.3.2	Code mark	NA

Abbreviation: P = Pass NA= Not Applicable

Artwork of packaging was provided for testing.

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Tests Conducted

6 Flammability Test

Test requirement: Section 4.2 of the ASTM Standard Consumer Safety Specification on Toy Safety F963-23, the sample was tested according to Annex A5 Flammability Testing Procedure for Solids and Soft Toys.

Result: Ignited but self-extinguished before burn rate could be determined.

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Tests Conducted

7 Total Lead (Pb) Content for Surface Coating

As per section 4.3.5 of the ASTM standard consumer safety specification on toy safety F963-17, test method CPSC-CH-E1003-09.1 was/were used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

Test Item	Result in ppm	Reporting Limit	Limit
	(1+2+3)	(ppm)	(ppm)
Lead(Pb)	ND	20	90

Remark: ppm = parts per million = mg/kg
ND= Not detected (Less than reporting limit)

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

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Testing Period: 18 Jan, 2024 To 01 Feb, 2024

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Tests Conducted

8 Total Lead (Pb) Content for Surface Coating

As per section 4.3.5 of the ASTM standard consumer safety specification on toy safety F963-23, test method CPSC-CH-E1003-09.1 was/were used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

Test Item	Result in ppm	Reporting Limit	Limit
	(1+2+3)	(ppm)	(ppm)
Lead(Pb)	ND	20	90

Remark: ppm = parts per million = mg/kg
ND= Not detected (Less than reporting limit)

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

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Tests Conducted

9 Soluble Heavy Metal Elements Analysis

As per section 4.3.5.1(2) and 8.3.2 / 4.3.5.2(2)(b) and 8.3.5 of the ASTM standard consumer safety specification on toy safety F963-17, acid extraction method was used and heavy metal elements content were determined by Inductively Coupled Argon Plasma Spectrometry.

Test Item	Result (mg/kg)		Reporting Limit (mg/kg)	Limit (mg/kg)
	(1)	(2)		
Sol. Barium (Ba)	ND	ND	5	1000
Sol. Lead (Pb)	ND	ND	5	90
Sol. Cadmium (Cd)	ND	ND	5	75
Sol. Antimony (Sb)	ND	ND	5	60
Sol. Selenium (Se)	ND	ND	5	500
Sol. Chromium (Cr)	ND	ND	5	60
Sol. Mercury (Hg)	ND	ND	5	60
Sol. Arsenic (As)	ND	ND	2.5	25

Remark: Sol. = Soluble

ND= Not detected (Less than reporting limit)

@ = Since the sample weight of the component (3) was less than 10 mg, soluble elements analysis was not conducted. Only total Lead content was tested.

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

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Tests Conducted

10 Soluble Elements Analysis (ASTM F963-23)

As per section 4.3.5.1(2) and 4.3.5.2(2)(b) of the ASTM standard consumer safety specification on toy safety F963-23, acid extraction method was used and heavy metal elements migration content were determined by Inductively Coupled Argon Plasma Spectrometry.

Test Item	Result (mg/kg)		Reporting Limit (mg/kg)	Limit (mg/kg)
	(1)	(2)		
Sol. Barium (Ba)	ND	ND	5	1000
Sol. Lead (Pb)	ND	ND	5	90
Sol. Cadmium (Cd)	ND	ND	5	75
Sol. Antimony (Sb)	ND	ND	5	60
Sol. Selenium (Se)	ND	ND	5	500
Sol. Chromium (Cr)	ND	ND	5	60
Sol. Mercury (Hg)	ND	ND	5	60
Sol. Arsenic (As)	ND	ND	2.5	25

Remark: mg/kg = milligram per kilogram =ppm
Sol. = Soluble
ND= Not detected (Less than reporting limit)

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

@ = Since the sample weight of the component (3) was less than 10 mg, soluble elements analysis was not conducted.

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Tests Conducted

11 Phthalates Content (ASTM F963-23)

With reference to CPSC-CH-C1001-09.4, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Test item	Result (%)	Detection Limit (%)	Limit (%) (Max.)
	(1+2+3)		
Dibutyl phthalate (DBP)	ND	0.01	0.1
Di-(2-ethylhexyl) phthalate (DEHP)	ND	0.01	0.1
Benzyl butyl phthalate (BBP)	ND	0.01	0.1
Diisononyl phthalate (DINP)	ND	0.01	0.1
Diisobutyl phthalate (DIBP)	ND	0.01	0.1
Di-n-pentyl phthalate (DPENP)	ND	0.01	0.1
Di-n-hexyl phthalate (DHEXP)	ND	0.01	0.1
Dicyclohexyl phthalate (DCHP)	ND	0.01	0.1

Remark: ND = Not Detected(Less than detection limit)

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

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Tests Conducted

12 Total Lead (Pb) Content

As per U.S. Code of Federal Regulations title 16 part 1303, acid digestion method was used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

<u>Tested component</u>	<u>Result (%)</u>	<u>Limit (%)</u>
(1+2+3)	<0.002	0.009

The limit was quoted according to CPSC Regulation CFR title 16 Part 1303 for Lead (Pb) content.

Remark: % = Percentage based on dry weight of testing sample

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

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Tests Conducted

13 Total Lead (Pb) Content in Surface Coating

As per standard operating procedure for determining Lead (Pb) in paint and other similar surface coatings (April 26, 2009), test method CPSC-CH-E1003-09.1 was used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

Tested Component	Result (ppm)	Limit (ppm)
(1+2+3)	<20	90

The limit was quoted according to U.S. Consumer Product Safety Improvement Act 2008 title I, section 101 for total Lead content in surface coating.

Remark: ppm = Parts per million = mg/kg

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

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Tests Conducted

14 Phthalate Content

With reference to CPSC-CH-C1001-09.4, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Test item	Result (%)	Limit (%) (Max.)
	(1+2+3)	
Dibutyl phthalate (DBP)	ND	0.1
Di-(2-ethylhexyl) phthalate (DEHP)	ND	0.1
Benzyl butyl phthalate (BBP)	ND	0.1
Diisononyl phthalate (DINP)	ND	0.1
Diisobutyl phthalate (DIBP)	ND	0.1
Di-n-pentyl phthalate (DPENP)	ND	0.1
Di-n-hexyl phthalate (DHEXP)	ND	0.1
Dicyclohexyl phthalate (DCHP)	ND	0.1

The above limit was quoted according to 16 CFR part 1307 approved by U.S. Consumer Product Safety Commission (CPSC) for prohibition of children's toys and child care articles containing specified phthalates.

Remark: ND = Not Detected
Detection Limit = 0.01%

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

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Tests Conducted

15 Phthalate Content

With reference to CPSC-CH-C1001-09.3 and by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

	Result (% w/w)	Limit (% w/w)
	(1+2+3)	
Dibutyl phthalate (DBP)	ND	0.1
Diethyl hexyl phthalate (DEHP)	ND	0.1
Benzyl butyl phthalate (BBP)	ND	0.1
Di-iso-decyl phthalate (DIDP)	ND	0.1
Di-n-hexyl phthalate (DnHP)	ND	0.1
Diisononyl phthalate (DINP)	ND	--

Remark: The above limit was quoted from the Consent Judgment No. BG-350969 settled by superior court of the State of California for the county of Alameda , for Toys based on the California Proposition 65.

ND = Not Detected
 Detected Limit = 0.01%(w/w)

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

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Tests Conducted

16 Total Lead (Pb) Content

With reference to US EPA method 3050B, acid digestion method was used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

<u>Tested Component</u>	<u>Result (ppm)</u>	<u>Requirement (ppm)</u>
(1+2+3)	<10	90

The above limit was quoted from the Consent Judgement No.RG-356892, settled by superior court of the state of California for the County of Alameda, for Toys based on the California proposition 65.

Remark: ppm = Parts per million = mg/kg

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

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Components:

- (1) Varnish coating on wood.
- (2) Red coating on wood.
- (3) Black coating on wood.

End of report

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