

Report No.: 304151471b 001

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Client: HAPPY ARTS&CRAFTS(NINGBO)CO.,LTD

Contact Information: HAPE INTERNATIONAL(NINGBO)LTD
9-27Nanhai Road, Dagang industrial City, Beilun, Ningbo, China

Test item(s): Toy

Identification/ Refer to detail list

Model No(s):

Sample obtaining method: Sending by customer

Condition at delivery: Test item complete and undamaged.

Sample Receiving date: 2025-12-09

Testing Period: 2025-12-09 to 2025-12-18

Place of testing: Chemical laboratory Suzhou, Toys laboratory Suzhou

Test Specification:

Please refer to "Test Result Summary List" on page 2 for details

Other information:

Country of origin: China

Packaging provided: Yes

The provided age grade of the item: For 18 to 36 months.

The appropriate age grade of the item: For 18 to 36 months.

The item was tested for 18 to 36 months.

For and on behalf of
TÜV Rheinland (Suzhou) Co., Ltd.



2025-12-18

Date

Fion Xie / Assistant Manager

Name/Position

Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed.

This test report relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.

"Decision Rule" document announced in our website (<https://www.tuv.com/landingpage/en/qm-gcn/>) describes the statement of conformity and its rule of enforcement for test results are applicable throughout this test report.

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Test Result Summary :**Test Specification:**

Customer's requirement:

Test result:

1 ASTM F963-23: Mechanical and physical	PASS
2 ASTM F963-23: Flammability on solid and soft toys	PASS
3 Tracking label per CPSA 15 U.S.C. § 2063(a)(5) and ASTM F963-23 Section 5.1.2	PASS
4 CPSC 16 CFR 1500.48, 1500.49, 1501 Mechanical and Physical Test	PASS
5 Flammability Test of Rigid and Pliable Solids (Part 1500.3(C)(6)(VI) 16 C.F.R. U.S.A.)	PASS
6 ASTM F963-23 Sect. 4.3.5.1 and 4.3.5.2: Soluble heavy metal	PASS
7 16 C.F.R. 1303 (CPSIA Sect. 101), ASTM F963-23 Sect. 4.3.5.1 and Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): Total lead content in paint and coating materials	PASS
8 15 USC 1278a (CPSIA Sect. 101), ASTM F963-23 Sect. 4.3.5.2 and Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): Total lead content in substrate materials	PASS
9 Total Lead Content	PASS



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Item NO. (货号)	Item Description EN (英文品名)	Item Description CN (中文名)	Age (年龄)
E0534,E0534A	Tree of Life Maze Puzzle	生命之树磁力迷宫	2-4Y
E0538,E0538A	Museum Nesting Blocks	大都会博物馆叠叠乐	18-36M



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Material List:

Item: Refer to detail list

Material No.	Material	Color	Location
A001	Whole Product	Multi-color	E0538,E0538A
A002	Whole Product	Multi-color	E0534,E0534A
M001	Paper + printing	Multi-color	E0538,E0538A/Box
M002	Wood	Natural	E0538,E0538A/Solid wood
M003	Coating	Multi-color	E0538,E0538A/On the wood
M004	Wood	Natural	E0534,E0534A/Main body
M005	Plastic	Transparent	E0534,E0534A/Window
M006	Plastic	Green	E0534,E0534A/Pin
M007	Plastic	Beige	E0534,E0534A/Pin
M013	Textile	Green	E0534,E0534A/Rope



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1.ASTM F963-23: Mechanical and physical
Test result:

Test No:	T001
Material No:	A001, A002
4. Safety requirements	
4.1 Material Quality (visual check)	PASS
4.6 Small Objects	PASS
4.7 Accessible Edges	PASS
4.9 Accessible Points	PASS
4.11 Nails and Fasteners	PASS*1
4.38 Magnets	PASS*1
5. Labeling Requirements	
5.1.2 Tracking Label	PASS
5.2 Age Grading Labeling	PASS
5.15 Promotional Materials	PASS
6. Instructional Literature	
6.1 Definition and Description	PASS
7. Producer's Markings	
7.1 Name and address of the producer or the distributor	PASS

Use and Abuse Tests:

The submitted samples were undergone the use and abuse tests in accordance with FHSA 16 CFR and whichever is applicable the tested age grade.

According to the Laboratory Test Manual from CPSC, 12 submitted samples are equally divided for carrying out the use and abuse testing.

Age Category	Drop Test	Flexure Test	Torque Test	Tension Test	Compression Test
0-18 Months 16 CFR 1500.51	10 x 4.5 ft	120 Arc 30 Cycles 10 lbs	2 in-lbf	10 lbf	20 lbf
19-36 Months 16 CFR 1500.52	4 x 3 ft	120 Arc 30 Cycles 15 lbs	3 in-lbf	15 lbf	25 lbf
37-96 Months 16 CFR 1500.53	4 x 3 ft	120 Arc 30 Cycles 15 lbs	4 in-lbf	15 lbf	30 lbf

The clause and/or sub-clause would be indicated only in the test report whichever applicable. The comprehensive result report is available upon request.

Remark:

*1 This clause is only applicable to A002



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2.ASTM F963-23: Flammability on solid and soft toys**Test result:**

Test No:	T001
Material No:	A001, A002
4.2 Flammability on solids and soft toys	PASS

The burning rate of the most severe part = DNI

Note: Maximum permissible burning rate = 0.1 Inch/sec.

Abbreviation: DNI = Did Not Ignite / IBE = Ignite But Self-extinguish

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3.Tracking label per CPSA 15 U.S.C. § 2063(a)(5) and ASTM F963-23 Section 5.1.2**Test Result:**

Test No:	T001
Material No:	A001, A002
Present On Packaging	PASS
Present On Product	PASS

Remark:

- * If there is a tracking label on the product which is visible through disposable packaging, the packaging need not be marked.
- ** The correct adherence to all requirements according to CPSA Tracking label in regards to the marking of:
- (1) Manufacturer or private labeler name;
 - (2) Location and date of production of the product;
 - (3) Detailed information on the manufacturing process, such as a batch or run number, or other identifying characteristics; and,
 - (4) Any other information to facilitate ascertaining the specific source of the product;
- can only be confirmed by the manufacturer/trader/applicant. The presence of related information was assessed; however, they cannot be verified in the frame of this test.



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4.CPSC 16 CFR 1500.48, 1500.49, 1501 Mechanical and Physical Test
Test result:

Test No.	Material No.	Description	Test Method	Result
T001	A001, A002	16 CFR 1500.48	Requirement for sharp points (0- 96 months)	PASS
		16 CFR 1500.49	Requirement for sharp edges - metal or glass (0- 96 months)	PASS
		16 CFR 1501	Requirement for small parts (0-36 months)	PASS

Use and Abuse Tests:

The submitted samples were undergone the use and abuse tests in accordance with FHSA 16 CFR and whichever is applicable the tested age grade.

Age Category	ImpactTest	Flexure Test	Torque Test	Tension Test	Compression Test
0-18 Months 16 CFR 1500.51	10 x 4.5 ft	120 Arc 30 Cycles 10 lbs	2 in-lbs	10 lbs	20 lbs
19-36 Months 16 CFR 1500.52	4 x 3 ft	120 Arc 30 Cycles 15 lbs	3 in-lbs	15 lbs	25 lbs
37-96 Months 16 CFR 1500.53	4 x 3 ft	120 Arc 30 Cycles 15 lbs	4 in-lbs	15 lbs	30 lbs



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5.Flammability Test of Rigid and Pliable Solids (Part 1500.3(C)(6)(VI) 16 C.F.R. U.S.A.)**Test result:**

Test No.	Material No.	Burn rate (inch/second)	Result
T001	A001, A002	DNI	PASS

Abbreviation: Note: Maximum permissible burning rate = 0.1 inch/sec.

DNI = Did Not Ignite / Abbreviation: IBE = Ignite But Self-extinguish



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6.ASTM F963-23 Sect. 4.3.5.1 and 4.3.5.2: Soluble heavy metal

Test method: For paint and similar surface-coating materials: ASTM F963-23 Section 8.3.2 – 8.3.4
Method to Dissolve Soluble Matter for Surface Coatings, Preparation of Test Samples and Test Procedures
For substrate: ASTM F963-23 Section 8.3.5 Soluble Element Test Method for Substrate Materials

Test result:

Test No.	Material No.	Sb	As	Ba	Cd	Cr	Pb	Hg	Se	Mass of trace amount (mg)	Conclusion
		Maximum Permissible Limit of Any Toy Materials except Modelling Clay (mg/kg)									
		60	25	1000	75	60	90	60	500		
		Maximum Permissible Limit of Modelling Clay (mg/kg)									
		60	25	250	50	25	90	25	500		
		RL (mg/kg)									
		5	5	2.5	2.5	2.5	2.5	2.5	10		
T001	M001	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL	-	PASS
T002	M002	< RL	< RL	8.8	< RL	< RL	< RL	< RL	< RL	-	PASS
T003	M003	< RL	< RL	15.5	< RL	< RL	< RL	< RL	< RL	-	PASS
T004	M004	< RL	< RL	7.8	< RL	< RL	< RL	< RL	< RL	-	PASS
T005	M005	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL	-	PASS
T006	M006	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL	-	PASS
T007	M007	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL	-	PASS
T008	M013	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL	-	PASS

Abbreviation: < = less than
RL = Reporting Limit
mg/kg = milligram per kilogram

Remark:

* Migration results of eight elements shown are the adjusted analytical results

Element	Sb	As	Ba	Cd	Cr	Pb	Hg	Se
Analytical Correction (in %)	60	60	30	30	30	30	50	60

** According to ASTM F963-23, if the weight of a test portion of toy material is less than 10 mg, the analysis of migration of certain elements would not be required. If the weight of a test portion of toy material is between 10 mg and 100 mg, the analytical results would be calculated as though 100mg of the test portion had been used.



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7.16 C.F.R. 1303 (CPSIA Sect. 101), ASTM F963-23 Sect. 4.3.5.1 and Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): Total lead content in paint and coating materials

Test method: CPSC-CH-E1003-09.1 (Microwave method)

Test result:

Test No.	Material No.	Test Parameter	Unit	RL	Regulatory Requirement	Test Result
T001	M003	Lead Content	ppm	10	90	< RL

Abbreviation: < = less than
RL = Reporting Limit
ppm = parts per million



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8.15 USC 1278a (CPSIA Sect. 101), ASTM F963-23 Sect. 4.3.5.2 and Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): Total lead content in substrate materials

Test method: CPSC-CH-E1001-08.3 and CPSC-CH-E1002-08.3 (Microwave method)

Test result:

Test No.	Material No.	Test Parameter	Unit	RL	Regulatory Requirement	Test Result
T001	M001	Lead Content	ppm	10	100	< RL
T002	M002 + M004	Lead Content	ppm	10	100	< RL
T003	M005 + M006 + M007	Lead Content	ppm	10	100	< RL
T004	M013	Lead Content	ppm	10	100	< RL

Abbreviation: < = less than
 RL = Reporting Limit
 ppm = parts per million



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9.Total Lead Content

Test Method: CPSC-CH-E1003-09.1 (Microwave method)

Result:

Test No.	Material No.	Test Parameter	Unit	RL	Customer's Requirement	Result
T001	M005 + M006 + M007	Lead Content	mg/kg	10	40	< RL
T002	M013	Lead Content	mg/kg	10	40	< RL
T003	M002 + M004	Lead Content	mg/kg	10	40	< RL
T004	M003	Lead Content	mg/kg	10	40	< RL
T005	M001	Lead Content	mg/kg	10	40	< RL

Abbreviation: < = less than
RL = Reporting Limit
mg/kg = milligram per kilogram



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Sample Photos



E0538,E0538A



E0538,E0538A



E0534,E0534A



E0534,E0534A

- END -



