

Report No.: 304151471a 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:

- 1 EN 71-1:2014+A1:2018 Mechanical and physical properties
- 2 2009/48/EC CE marking
- 3 2009/48/EC Labeling Requirement
(Importer/ Manufacturer Mark, Product Identification, Washing/ Cleaning instruction)
- 4 EN 71-2:2020+A1:2025 Flammability
- 5 EN 71-2:2020 Flammability
- 6 EN 71-3:2019+A2:2024 Migration of 19 Elements

Test result:

PASS

PASS

Please refer to result page

PASS

PASS

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. EN 71-1:2014+A1:2018 Mechanical and physical properties

Test No:	T001
Material No:	A001, A002
4. General requirements	
4.1 Material cleanliness	PASS
4.7 Edges	PASS
4.8 Points and metallic wires	PASS
4.23 Magnets	PASS*1
5. Toys intended for children under 36 months	
5.1 General requirements	PASS
5.4 Cords, chains and electrical cables in toys	PASS*1
7. Warnings, markings and instructions for use	
7.1 General	PASS*1
7.22 Toys with cords or chains intended for children of 18 months and over but under 36 months	PASS

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. 2009/48/EC CE Marking
Test result:

Test No:	T001
Material No:	A001, A002
CE-marking	PASS

3. 2009/48/EC Labeling Requirement (Importer/ Manufacturer Mark, Product Identification, Washing/ Cleaning instruction)
Test result:

Test No:	T001
Material No:	A001, A002
Importer/ Manufacturer Mark (European Company name and address)+	Present on product and package
Product Identification - type, batch, serial or model number+	Present on product and package

Remark:

+ These labeling shall be indicated on the toy, or where that is not possible, on its packaging or in a documents accompanying the toys.

The correct adherence to all requirements according to directive 2009/48/EC in regards to the marking (name or trademark and contact address of the manufacturer respectively the marking for identification [type, batch, model or serial no.]) of the toy can only be confirmed by the manufacturer, his delegate or the person who brings it onto the market. The marked article were assessed, however, they can not be evaluated in the frame of this test.



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4. EN 71-2:2020+A1:2025 Flammability**Test result:**

	Test No:	T001
	Material No.	A001, A002
4.1 General requirements		PASS

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



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5. EN 71-2:2020 Flammability**Test result:**

	Test No:	T001
	Material No.	A001, A002
4.1 General requirements		PASS

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



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6. EN 71-3:2019+A2:2024 Migration of certain elements

Test Method: with reference to EN 71-3:2019+A2:2024, analyzed by ICP-OES / ICP-MS / LC-ICP-MS/IC-UV/GC-MS.

3) For scraped-off toy materials:
Test Result:

Test No.				T001	T002	T003
Material No.				M001	M002	M003
Test Parameter	Unit	RL	Regulatory Requirement	Result	Result	Result
Aluminium (Al)	mg/kg	10	28,130	< RL	< RL	262
Antimony (Sb)	mg/kg	5	560	< RL	< RL	< RL
Arsenic (As)	mg/kg	5	47	< RL	< RL	< RL
Barium (Ba)	mg/kg	2.5	18,750	3.5	12.5	22.2
Boron (B)	mg/kg	10	15,000	< RL	< RL	< RL
Cadmium (Cd)	mg/kg	1	17	< RL	< RL	< RL
Chromium III (Cr(III))	mg/kg	10	460	< RL	< RL	< RL
Chromium VI (Cr(VI))	mg/kg	0.045	0.053	< RL	< RL	< RL
Cobalt (Co)	mg/kg	2.5	130	< RL	< RL	< RL
Copper (Cu)	mg/kg	2.5	7,700	< RL	< RL	< RL
Lead (Pb)	mg/kg	2.5	23	< RL	< RL	< RL
Manganese (Mn)	mg/kg	2.5	15,000	7.0	54.2	4.4
Mercury (Hg)	mg/kg	2.5	94	< RL	< RL	< RL
Nickel (Ni)	mg/kg	2.5	930	< RL	< RL	< RL
Selenium (Se)	mg/kg	10	460	< RL	< RL	< RL
Strontium (Sr)	mg/kg	2.5	56,000	24.4	2.7	4.8
Tin (Sn)	mg/kg	1.0	180,000	< RL	< RL	< RL
Organic Tin [^]	mg/kg	0.2	12	-	-	-
Zinc (Zn)	mg/kg	10	46,000	< RL	< RL	25
Mass of trace amount	mg	--	--	-	-	-

Abbreviation: < = less than
 RL = Reporting Limit
 mg/kg denotes milligram per kilogram
 mg denotes milligram
[^] denotes Organic tin are not necessary to be determined when the Tin concentration is less than calculated limit (3.2 mg/kg) or the components were confirmed to be pure metal



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Test Result:

Test No.				T004	T005	T006
Material No.				M004	M005	M006
Test Parameter	Unit	RL	Regulatory Requirement	Result	Result	Result
Aluminium (Al)	mg/kg	10	28,130	< RL	< RL	< RL
Antimony (Sb)	mg/kg	5	560	< RL	< RL	< RL
Arsenic (As)	mg/kg	5	47	< RL	< RL	< RL
Barium (Ba)	mg/kg	2.5	18,750	11.1	< RL	< RL
Boron (B)	mg/kg	10	15,000	< RL	< RL	< RL
Cadmium (Cd)	mg/kg	1	17	< RL	< RL	< RL
Chromium III (Cr(III))	mg/kg	10	460	< RL	< RL	< RL
Chromium VI (Cr(VI))	mg/kg	0.045	0.053	< RL	< RL	< RL
Cobalt (Co)	mg/kg	2.5	130	< RL	< RL	< RL
Copper (Cu)	mg/kg	2.5	7,700	< RL	< RL	< RL
Lead (Pb)	mg/kg	2.5	23	< RL	< RL	< RL
Manganese (Mn)	mg/kg	2.5	15,000	6.5	< RL	< RL
Mercury (Hg)	mg/kg	2.5	94	< RL	< RL	< RL
Nickel (Ni)	mg/kg	2.5	930	< RL	< RL	< RL
Selenium (Se)	mg/kg	10	460	< RL	< RL	< RL
Strontium (Sr)	mg/kg	2.5	56,000	9.8	< RL	< RL
Tin (Sn)	mg/kg	1.0	180,000	< RL	< RL	< RL
Organic Tin [^]	mg/kg	0.2	12	-	-	-
Zinc (Zn)	mg/kg	10	46,000	< RL	< RL	< RL
Mass of trace amount	mg	--	--	-	-	-

Abbreviation:

- < = less than
- RL = Reporting Limit
- mg/kg denotes milligram per kilogram
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Test Result:

Test No.				T007	T008
Material No.				M007	M013
Test Parameter	Unit	RL	Regulatory Requirement	Result	Result
Aluminium (Al)	mg/kg	10	28,130	< RL	< RL
Antimony (Sb)	mg/kg	5	560	< RL	< RL
Arsenic (As)	mg/kg	5	47	< RL	< RL
Barium (Ba)	mg/kg	2.5	18,750	< RL	< RL
Boron (B)	mg/kg	10	15,000	< RL	< RL
Cadmium (Cd)	mg/kg	1	17	< RL	< RL
Chromium III (Cr(III))	mg/kg	10	460	< RL	< RL
Chromium VI (Cr(VI))	mg/kg	0.045	0.053	< RL	< RL
Cobalt (Co)	mg/kg	2.5	130	< RL	< RL
Copper (Cu)	mg/kg	2.5	7,700	< RL	< RL
Lead (Pb)	mg/kg	2.5	23	< RL	< RL
Manganese (Mn)	mg/kg	2.5	15,000	< RL	< RL
Mercury (Hg)	mg/kg	2.5	94	< RL	< RL
Nickel (Ni)	mg/kg	2.5	930	< RL	< RL
Selenium (Se)	mg/kg	10	460	< RL	< RL
Strontium (Sr)	mg/kg	2.5	56,000	< RL	< RL
Tin (Sn)	mg/kg	1.0	180,000	< RL	3.2
Organic Tin [^]	mg/kg	0.2	12	-	-
Zinc (Zn)	mg/kg	10	46,000	< RL	< RL
Mass of trace amount	mg	--	--	-	-

Abbreviation: < = less than
 RL = Reporting Limit
 mg/kg denotes milligram per kilogram
 mg denotes milligram
 ^ denotes Organic tin are not necessary to be determined when the Tin concentration is less than calculated limit (3.2 mg/kg) or the components were confirmed to be pure metal

Remark:

- * Categorization of toys materials is based on the material texture. According to point H.11 of Annex H to EN 71-3:2019+A2:2024 / BS EN 71-3:2019+A2:2024, cosmetic materials with dry, brittle, powder like or pliable texture such as lipstick and eyeshadow are considered as category I materials. However, as a reminder, it cannot preclude the possibility that some national enforcement authorities might take a more stringent action to treat cosmetic materials as sticky and evaluate according to category II requirement as they are intended to be applied on skin and retained for long time.
- # According to EN 71-3:2019+A2:2024, if the weight of a test portion of toy material is less than 10mg, the analysis of migration of certain elements would not be required. If the weight of a test portion of toy material is between 10mg and 100mg, the analytical results would be calculated as though 100mg of the test portion had been used.



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Sample Photos



E0538,E0538A



E0538,E0538A



E0534,E0534A



E0534,E0534A

- END -



