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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/
Model No(s):** Refer to detail list

Sample obtaining method: Sending by customer

Condition at delivery: Test item complete and undamaged.

Sample Receiving date: 2022-12-12 & 2022-01-20

Testing Period: 2022-12-12 to 2023-01-31

Place of testing: Chemical laboratory Shanghai,Toys laboratory Shanghai

Test Specification:

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

Other information:

Country of Origin: China
Sales Destination: Global
Packaging provided: Yes
The provided age grade of the item: Over 24 months.
The appropriate age grade of the item: Over 18 months.
The item was tested over 18 months.

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



2023-01-31

Date

Neo Yang / 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:**

- 1 ASTM F963-17: Mechanical and physical
- 2 ASTM F963-17: Flammability on solids and soft toys
- 3 CPSIA Sect 103: Tracking label
- 4 CPSC 16 CFR 1500.48, 1500.49, 1501 Mechanical and Physical Test
- 5 Flammability Test of Rigid and Pliable Solids (Part 1500.3(C)(6)(VI) 16 C.F.R. U.S.A.)
- 6 ASTM F963-17 Sect. 4.3.5.1 and 4.3.5.2 : Soluble heavy metal
- 7 ASTM F963-17 Sect. 4.3.5.1 and CPSIA Sect. 101: Total lead content in paint and coating materials
- 8 ASTM F963-17 Sect. 4.3.5.2 and CPSIA Sect. 101: Total lead content in substrate materials

Test result:

PASS
PASS
PASS
PASS
PASS
PASS
PASS
PASS



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Item NO.	Item Description EN	Item Description CN	Age
E0458,E0458A	Sunny Valley Adventure Dome	佩佩阳光谷立体迷宫	24M+



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Material List:

Item: Refer to detail list

Material No.	Material	Color	Location
M001	Whole Product	Multicolor	Sunny Valley Adventure Dome
M002	Wood	Natural	Solid wood
M003	Wood	Natural	Plywood
M004	Wood	Brown	MDF(inaccessible)
M005	Coating	Transparent	Varnish
M006	Coating	Red	On wood, Bird
M007	Coating	Orange	On wood, Bird
M008	Coating	Blue	On wood, Bird
M009	Coating	White	On wood, Bird
M010	Coating	Brown	On wood, "PEPE"
M011	Coating	Black	On wood, bottom
M015	Plastic	Transparent	ABS Cover
M026	Textile	Red	String
M027	Plastic	Orange	Bird mouth



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1.ASTM F963-17: Mechanical and physical
Test result:

Test No:	T001
Material No:	M001
4. Safety requirements	
4.1 Material Quality (visual check)	PASS
4.5 Sound-producing toys	PASS
4.6 Small objects	PASS
4.7 Accessible edges	PASS
4.9 Accessible points	PASS
4.11 Nails and fasteners	PASS
4.38 Magnets	PASS
5. Labeling requirements	
5.16 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.

Age Category	Impact 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-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

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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2.ASTM F963-17: Flammability on solids and soft toys**Test result:**

	Test No:	T001
	Material No:	M001
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.CPSIA Sect 103: Tracking label**Test Result:**

	Test No:	T001
	Material No:	M001
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 CPSIA 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	M001	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	Impact 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-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	M001	DNI	PASS

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 F963-17 Sect. 4.3.5.1 and 4.3.5.2 : Soluble heavy metal

Test method: For paint and similar surface-coating materials: ASTM F963-17 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 F963-17 Section 8.3.5 Soluble Element Test Method for Substrate Materials

This requirement applies to the coating and substrate materials which the sample weight is greater than 10 mg

Test result:

Test No.	Material No.	[mg/kg]							
		Sb	As	Ba	Cd	Cr	Pb	Hg	Se
		Maximum Permissible Limit of Any Toy Materials except Modelling Clay							
		60	25	1000	75	60	90	60	500
		Maximum Permissible Limit of Modelling Clay							
		60	25	250	50	25	90	25	500
		RL							
		2.5	2.5	2.5	2.5	2.5	2.5	2.5	
T001	M002	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T002	M003(*1)	< RL	< RL	8.7	< RL	< RL	< RL	< RL	< RL
T003	M004	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T004	M005	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T005	M006	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T006	M007	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T007	M008	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T008	M009(*1)	< RL	< RL	3.4	< RL	< RL	< RL	< RL	< RL
T009	M015(*1)	< RL	< RL	7.9	< RL	< RL	< RL	< RL	< RL
T010	M026(*1)	< RL	< RL	7.8	< RL	< RL	< RL	< RL	< RL
T011	M027	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL

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

Remark:

*1 The material is deemed comply with the requirement of ASTM F963-17 cl. 8.3.4.3 after analytical correction.

* 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

*2 The weight of test portion M010 and M011 available were less than 10 mg, the test for soluble heavy metal content was not performed.



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7.ASTM F963-17 Sect. 4.3.5.1 and CPSIA Sect. 101: 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	M005 + M010 + M011	Lead Content	ppm	10	90	< RL
T002	M006	Lead Content	ppm	10	90	< RL
T003	M007 + M008 + M009	Lead Content	ppm	10	90	< RL

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


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8.ASTM F963-17 Sect. 4.3.5.2 and CPSIA Sect. 101: 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	M002 + M003	Lead Content	ppm	10	100	< RL
T002	M015 + M027	Lead Content	ppm	10	100	< RL
T003	M026	Lead Content	ppm	10	100	< RL

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



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Sample Photo



E0458.E0458A

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