

Report No.: **244346170b 001**

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

Contact Information: HAPE INTERNATIONAL (NINGBO) LTD.
9-27 NANHAI ROAD, DAGANG INDUSTRIAL CITY, BEILUN, NINGBO,
CHINA

Test item(s): Toy

Identification/ Please refer to detail list

Model No(s):

Sample obtaining method: Sending by customer

Condition at delivery: Test item complete and undamaged.

Sample Receiving date: 2021-10-25

Testing Period: 2021-10-25 to 2021-11-04

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:

The provided age grade of the item: Over 10 months.

The appropriate age grade of the item: M001, M002: For all ages; M003, M037: Over 10 months.

The item was tested: M001, M002: For all ages; M003, M037: Over 10 months.

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



2021-11-05

Date


Gary Zhu / 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 ASTM F963-17 Sect. 4.3.5.1 and CPSIA Sect. 101: Total lead content in paint and coating materials
- 5 ASTM F963-17 Sect. 4.3.5.2 and CPSIA Sect. 101: Total lead content in substrate materials
- 6 ASTM F963-17 Sect. 4.3.5.1 and 4.3.5.2 : Soluble heavy metal

Test result:

PASS
PASS
PASS
PASS
PASS
PASS



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ITEM NO.	ITME DESCRIPTION EN	ITME DESCRIPTION CN	AGE
E0108,E0108A	Multi-stage Sensory Gift Set	感统发育五件套 (幼童)	10M+
E0106,E0106A	Baby-to-Toddler Sensory Gift Set	感统发育三件套 (婴幼)	10M+
E0107,E0107A	Bunny Stacker	趣味回力兔尾堆塔	10M+
E8931	Floppy-Ear Bunny Stacker	趣味回力兔尾堆塔	10M+



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Material List:

Item: Please refer to detail list

Material No.	Material	Color	Location	Remark
M001	Whole Product	Multi-color	E0108,E0108A	
M002	Whole Product	Multi-color	E0106,E0106A	
M003	Whole Product	Multi-color	E0107,E0107A	
M004	Wood	Nature	Solid Wood	Refer to 244330003/M007
M005	Wood	Nature	MDF	
M006	Coating	Transparent	Varnish	Refer to 244330003/M017
M007	Coating	White	On wood	Refer to 244330003/M019
M008	Coating	Black	On wood	Refer to 244330003/M016
M009	Coating	Dk.lake blue	On wood	
M010	Coating	Pink	On wood	Refer to 244330003/M011
M011	Coating	Sky blue	On wood	
M012	Coating	Rose pink	On wood	
M013	Coating	Lt.blue	On wood	
M014	Coating	Coral	On wood	
M015	Coating	Brown	On wood	
M016	Coating	White	On plastic	
M017	Coating	Black	On plastic	
M018	Coating	Dk.lake blue	On plastic	
M019	Textile	Brown	Main fabric, E0107	
M020	Textile	White	Ears&Nose, E0107	



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M021	Textile	Black	Eyes, E0107	
M022	Textile	Pink	Mouth, E0107	
M023	Textile	White	Tail, E0107	
M024	Textile	White	String, E0107	
M025	Textile	Orange + Lt.orange	Ring, E0107	
M026	Textile	Green	Ring, E0107	
M027	Textile	White	Stuffing, E0107	
M028	Plastic	Lt.blue	ABS head, E0106&E0108	
M029	Plastic	White	Silicone feet, E0106&E0108	
M030	Plastic	Pink	Silicone feet, E0106&E0108	
M031	Plastic	White	Spring inside, E0107	
M032	Plastic + Textile	White	Elastic string(with rubber core)	Refer to 244330003/M023
M033	Textile	White	String, E0106&E0108	
M034	Plastic	Sky blue	Silicone beads,E0108,&E0106	
M035	Plastic	Pink	Silicone beads,E0108,&E0106	
M036	Plastic	Blue	Silicone beads,E0108,&E0106	
M037	Whole Product	Multi-color	E8931	
M038	Coating	Yellow	On wood	Refer to 244357923/M019
M039	Coating	Light green	On wood	
M040	Coating	Green	On wood	
M041	Textile	Pink	Ear	
M042	Textile	Light green	Body	



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

Test No:	T001
Material No:	M001-M003, M037
4. Safety requirements	
4.1 Material Quality (visual check)	PASS
4.3.7 Stuffing materials	PASS*1
4.5 Sound-producing toys	PASS*2
4.6 Small objects	PASS
4.7 Accessible edges	PASS
4.8 Projections	PASS*1
4.9 Accessible points	PASS
4.10 Wires or rods	N/A
4.11 Nails and fasteners	N/A
4.12 Plastic film	N/A
4.13 Folding mechanisms and hinges	N/A
4.14 Cords, straps, and elastics	PASS
4.15 Stability and over-load requirements	N/A
4.16 Confined spaces	N/A
4.17 Wheels, tires and axles	N/A
4.18 Holes, clearance and accessibility of mechanisms	PASS*1
4.19 Simulated protective devices	N/A
4.20 Pacifiers	N/A
4.21 Projectile toys	N/A
4.22 Teethers and teething toys	PASS*2
4.23 Rattles	PASS*2
4.24 Squeeze toys	N/A
4.26 Toys intended to be attached to a crib or playpen	N/A
4.27 Stuffed and beanbag-type toys	PASS*1
4.28 Stroller and carriage toys	N/A
4.29 Art materials (#)	N/A
4.30 Toys gun marking	N/A
4.31 Balloons	N/A
4.32 Certain toys with nearly spherical ends	N/A
4.33 Marbles	N/A
4.34 Balls	N/A
4.35 Pompoms	N/A
4.36 Hemispheric-shaped objects	N/A
4.37 Yo Yo elastic tether toys (#)	N/A
4.38 Magnets	N/A
4.39 Jaw entrapment in handle and steering wheels	N/A
4.40 Expanding materials	N/A
4.41 Toy chests	N/A
5. Labeling requirements	
5.1 Federal government requirements	N/A
5.2 Age grading labeling	N/A



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Test No:	T001
Material No:	M001-M003, M037
5.3 Safety labeling requirements	N/A
5.4 Aquatic toys	N/A
5.5 Crib and playpen toys	N/A
5.6 Mobiles	N/A
5.7 Stroller and carriage toys	N/A
5.8 Toys intended to be assembled by an adult	N/A
5.9 Simulated protective devices	N/A
5.10 Toys with functional sharp edges or points	N/A
5.11 Small objects, small balls, marbles and balloons	N/A
5.12 Toy caps	N/A
5.13 Art materials	N/A
5.16 Promotional materials	PASS
5.17 Magnets	N/A
6. Instructional literature	
6.1 Definition and description	PASS
6.2 Crib and playpen toys	N/A
6.3 Mobiles	N/A
6.4 Toys intended to be assembled by an adult	N/A
6.7 Toys in contact with food	N/A
6.8 Toy chests	N/A
7. Producer's markings	
7.1 Name and address of the producer or the distributor	PASS
7.3 Toy chests	N/A

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.

Remark:

- *1 This clause is only applicable to M003, M037
- *2 This clause is only applicable to M001, M002



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

Test result:

	Test No:	T001
	Material No:	M001-M003, M037
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-M003, M037
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.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	M006 + M007 + M008	Lead Content	ppm	10	90	< RL
T002	M009 + M010 + M011	Lead Content	ppm	10	90	< RL
T003	M012 + M013 + M014	Lead Content	ppm	10	90	< RL
T004	M015 + M016 + M017	Lead Content	ppm	10	90	< RL
T005	M018	Lead Content	ppm	10	90	< RL
T006	M038 + M039 + M040	Lead Content	ppm	10	90	< RL

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



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5.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	M004 + M005	Lead Content	ppm	10	100	< RL
T002	M028 + M031	Lead Content	ppm	10	100	< RL
T003	M029 + M030	Lead Content	ppm	10	100	< RL
T004	M034 + M035 + M036	Lead Content	ppm	10	100	< RL
T005	M032	Lead Content	ppm	10	100	< RL

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


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

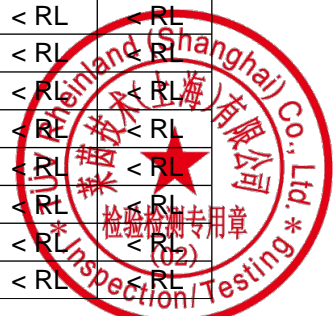
Test method: For paint and similar surface-coating materials: ASTM F963-17 Section 8.3.2 - 8.3.4 Method to Dissolve Soluble Matter for Surface Coatings, Preparation of Test Samples and Test Procedures

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	M004(*3)	< RL	< RL	10.0	< RL	< RL	< RL	< RL	< RL
T002	M005(*3)	< RL	< RL	13.4	< RL	< RL	< RL	< RL	< RL
T003	M006	< RL	< RL	4.0	< RL	< RL	< RL	< RL	< RL
T004	M007	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T005	M008(*3)	< RL	< RL	2.7	< RL	< RL	< RL	< RL	< RL
T006	M009(*1)	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T007	M010(*3)	< RL	< RL	4.6	< RL	< RL	< RL	< RL	< RL
T008	M011	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T009	M012(*1)(*3)	< RL	< RL	4.6	< RL	< RL	< RL	< RL	< RL
T010	M013(*1)	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T011	M014(*1)	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T012	M019	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T013	M020	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T014	M021(*1)	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T015	M022(*1)	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T016	M023(*3)	< RL	9.8	< RL	< RL	< RL	< RL	< RL	< RL
T017	M024	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T018	M025	29.7	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T019	M026	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T020	M027	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T021	M028	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T022	M029	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T023	M030	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T024	M031	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T025	M032	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T026	M033	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T027	M034	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL



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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	2.5		
T028	M035	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T029	M036	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T034	M038(*1)	< RL	< RL	3.3	< RL	< RL	< RL	< RL	< RL
T035	M039(*1)	< RL	< RL	3.3	< RL	< RL	< RL	< RL	< RL
T036	M040	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T037	M041	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T038	M042	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL

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

Remark:

- *1 The weight of test portion available was less than 100 mg, but greater than 10 mg, so results were calculated as if 100 mg of the sample were available.
- *2 The weight of test portion available M015-M018 were less than 10 mg, the test for soluble heavy metal content was not performed.
- *3 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



Sample Photos



E0108,E0108A



E0107,E0107A



E0106,E0106A



E8931

- END -



