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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: 2021-10-09

Testing Period: 2021-10-09 to 2021-11-03

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: Artwork
The provided age grade of the item: Over 36 months.
The appropriate age grade of the item: Over 36 months.
The item was tested over 36 months.
*As per client's requirement

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



2021-11-05

Gary Zhu / Assistant Manager

Date

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

Test result:

PASS
PASS
PASS
PASS
PASS
PASS
PASS
PASS
PASS



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ITEM NO.	ITM DESCRIPTION EN	ITM DESCRIPTION CN	AGE
E6027 , E6027A	Quadrilla Stack Track Bucket Set	寺得瑞拉盒子套装	3Y+



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Material List:

Item: Refer to detail list

Material No.	Material	Color	Location	Remark
M001	Whole Product	Multi-color	Refer to photo	
M002	Wood	Nature	Solid Wood	Soluble heavy metal refer to 244357923/M007
M003	Wood	Nature	Plywood	Soluble heavy metal refer to 244352423/M004
M004	Coating	Transparent	On wood	Soluble heavy metal refer to 244357923/M015
M005	Coating	Brown	On wood, logo	Soluble heavy metal refer to 244346170/M015
M006	Coating	Orange	On wood	Soluble heavy metal refer to 244357923/M018
M007	Coating	Lake blue	On wood	
M008	Coating	Green	On wood	
M009	Coating	Yellow	On wood	Soluble heavy metal refer to 244357923/M019
M010	Coating	Cream	On wood	
M011	Coating	Orange red	On wood	
M012	Coating	White	On flag	
M013	Plastic	Lake blue	PP cover	
M014	Plastic	Purple	PP high adjuster	
M015	Plastic	Red	PP marble roulette	Soluble heavy metal refer to 244357923/M029
M016	Plastic	Cream	Connector	Soluble heavy metal refer to 244352423/M018
M017	Plastic	Rose red	Block	
M018	Plastic	White	Seasaw	



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M019	Plastic	Blue	Seasaw	Soluble heavy metal refer to 244358422/M022
M020	Plastic	Orange	Marble plate	
M021	Plastic	Black	Gasket	
M022	Plastic	Beige	Blocks	
M023	Glass	Multi-color	Marble	
M024	Textile	White	Bag	
M025	Textile	White	String of bag	
M026	Textile	Red + White	Label	
M027	Paper + printing + adhesive	Multi-color	Sticker	
M028	Paper + printing	Multi-color	Instruction book	
M029	Metal	Silver	Staple	



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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
4.3.7 Stuffing materials	N/A
4.5 Sound-producing toys	N/A
4.6 Small objects	PASS
4.7 Accessible edges	PASS
4.8 Projections	PASS
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	N/A
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	N/A
4.19 Simulated protective devices	N/A
4.20 Pacifiers	N/A
4.21 Projectile toys	N/A
4.22 Teethers and teething toys	N/A
4.23 Rattles	N/A
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	N/A
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	PASS
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
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	PASS
5.12 Toy caps	N/A
5.13 Art materials	N/A
5.16 Promotional materials	N/A
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.



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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.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	M004 + M005 + M006	Lead Content	ppm	10	90	< RL
T002	M007 + M008 + M009	Lead Content	ppm	10	90	< RL
T003	M010 + M011	Lead Content	ppm	10	90	< RL
T004	M012	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	M002 + M003	Lead Content	ppm	10	100	< RL
T002	M013 + M014 + M015	Lead Content	ppm	10	100	< RL
T003	M016 + M017 + M020	Lead Content	ppm	10	100	< RL
T004	M018 + M019 + M022	Lead Content	ppm	10	100	< RL
T005	M021	Lead Content	ppm	10	100	< RL
T006	M023	Lead Content	ppm	10	100	< RL
T007	M029	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	M002(*3)	< RL	< RL	4.7	< RL	< RL	< RL	< RL	< RL
T002	M003(*3)	< RL	< RL	4.8	< RL	< RL	< RL	< RL	< RL
T003	M004(*3)	< RL	< RL	3.4	< RL	< RL	< RL	< RL	< RL
T004	M006	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T005	M007(*3)	< RL	< RL	17.1	< RL	< RL	< RL	< RL	< RL
T006	M008(*3)	< RL	< RL	9.7	< RL	< RL	< RL	< RL	< RL
T007	M009(*3)	< RL	< RL	3.3	< RL	< RL	< RL	< RL	< RL
T008	M010(*1)	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T009	M011	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T010	M013	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T011	M014	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T012	M015	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T013	M016(*1)	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T014	M017	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T015	M018	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T016	M019	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T017	M020	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T018	M021	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T019	M022	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T020	M024	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T021	M025	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T022	M026(*3)	3.4	< RL	< RL	< RL	< RL	< RL	< RL	< RL
T023	M027(*3)	< RL	< RL	5.9	< RL	< RL	< RL	< RL	< RL
T024	M028	< RL	< RL	< RL	< RL	< RL	< RL	< RL	< RL



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

Remark:

- *1 The weight of test portion marked (*1) 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 portions M005&M012 available were less than 10 mg, the tests for soluble heavy metal content were 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



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7.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	M004 + M005 + M006	Lead Content	mg/kg	10	40	< RL
T002	M007 + M008 + M009	Lead Content	mg/kg	10	40	< RL
T003	M010 + M011	Lead Content	mg/kg	10	40	< RL
T004	M012	Lead Content	mg/kg	10	40	< RL

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

Remark:

- *1 The requirement is following 16 CFR Part 1303 for
- (1) Paint and other similar surface-coating materials
 - (2) Lead-containing paint
 - (3) Toys and other articles intended for use by children and
 - (4) Furniture article.



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8.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)	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



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9.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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Sample Photo



E6027.E6027A

- END -



