



中国认可
国际互认
检测
TESTING
CNAS L2929

Test Report

No.: T52010210159TY

Date: JAN 17, 2020

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HAPPY ARTS&CRAFTS(NINGBO)CO.,LTD
HAPE INTERNATIONAL (NINGBO) LTD
9-27 NANHAI ROAD, DAGANG INDUSTRIAL CITY,
BEILUN, NINGBO, CHINA PC:315800

The following samples were submitted and identified by/on behalf of the client as:

LIGHTUPCIRCUSACTIVITYCUBE

Item No.	:	E1813, E1813A
Country of Destination	:	GLOBAL
Labeled Age Grading	:	18M+
Requested Age Grading	:	18M+
Age Group Assessed by SGS As Per Age Guideline	:	OVER 18 MONTHS
Age Group Applied in Testing	:	OVER 18 MONTHS
Sample Receiving Date	:	JAN 06, 2020
Testing Period	:	JAN 06, 2020 TO JAN 17, 2020



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Shenzhen Branch Testing Center Hardlines

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Test Requested		Conclusion
1.	For compliance with the test requirement of ASTM F963-17 Standard Consumer Safety Specification on Toy Safety. (Except tool)	--
	ASTM F963-17 Standard Consumer Safety Specification for Toy Safety	PASS
2.	Title 16, Code of Federal Regulations, Chapter II - Consumer Products Safety Commission of U.S.A. - Part 1303 - Ban of Lead - Containing Paint and Certain Consumer Products Bearing Lead - Containing Paint – Lead Content	PASS
3.	Tracking label per Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children's products.	PASS*
4.	CPSIA section 101 - Total Lead content	--
	CPSIA section 101(f) (1) – Lead in paint/similar surface coating material	PASS
	Client's Requirement – Lead in paint/similar surface coating material	PASS
	CPSIA section 101(a) (2) – Lead in accessible substrate materials (Including Children's Metal Jewelry)	PASS
	Client's Requirement – Lead in accessible substrate materials (Including Children's Metal Jewelry)	PASS

Remark: Test item(s) with “*” is(are) not accredited by CNAS.

***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

Signed for and on behalf of
SGS-CSTC Standards Technical
Services Co., Ltd. Shenzhen Branch Testing Center



Liu Junjie, Tony
Section Manager
CNAS Approved Signatories

Qu Ping, Kiky
Dept. Manager
CNAS Approved Signatories



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Results:

ASTM F963-17 STANDARD CONSUMER SAFETY SPECIFICATION FOR TOY SAFETY

AS SPECIFIED IN ASTM F963-17 STANDARD CONSUMER SAFETY SPECIFICATION ON TOYS SAFETY

Clauses relevant to the item:

Clause	Description	Result
4	Safety Requirements	
4.1	Material Quality **	Pass
4.2	Flammability Test	Pass (See Result Page)
4.3	Toxicology	
4.3.5	Heavy Elements	
4.3.5.1	Heavy Elements in Paint/Similar Surface Coating Materials	Pass (See Result Page)
4.3.5.2	Heavy Metal in Substrate Materials	Pass (See Result Page)
4.6.1	Small Objects	Pass
4.7	Accessible Edges	Pass
4.9	Accessible Points	Pass
4.10	Wires or Rods	Pass
4.11	Nails and Fasteners	Pass
4.25	Battery-Operated Toys (Non-rechargeable battery)	Pass
5	Safety Labeling Requirements	
5.2	Age Grading Labeling	Pass
5.3	Safety Labeling Requirements	Pass
5.8	Toys Intended to be Assembled by an Adult	Pass
5.16	Promotional Materials	Pass
6	Instructional Literature	
6.5	Battery-Operated Toys	Pass
7	Producer's Markings	
7.1	Producer's Markings	Pass
8.5	Normal Use Testing	Pass
8.7	Impact Test	Pass
8.8	Torque Test	Pass
8.9	Tension Test	Pass
8.10	Compression Test	Pass

** Visual Examination



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Result Page:

Flammability Test (Clause 4.2)

Flammability Test on Solid

Sample

LIGHTUPCIRCUSACTIVITYCUBE

Burning Rate (inch/sec)

DNI

Requirement: A toy / component is considered a "flammable solid" if it ignites and burns with a self-sustaining flame at a rate greater than 0.10 in/sec along its major axis.

DNI = Did Not Ignite



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ASTM F963-17, Clause 4.3.5.1 – Heavy Elements in Paint/Similar Surface Coating Materials

Method: With reference to CPSC-CH-E1003-09.1

Method: With reference to ASTM F963-17 Clause 8.3

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)

Total Lead Content

Test Item(s)			Lead (Pb)
MDL (ppm)			10
Total Limit (ppm)			90
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
1. Transparent lacquer coating on wood & plywood (Body) + White coating on plywood & wood (Body) w/ black coating on plywood (Lettering), brown coating on plywood (Pattern) + Red coating on wood (Body, runner, bead, nose)	3	1	ND
2. Multi-color coating on wood & plywood (Pattern) + Light orange coating on plywood (Body) + Pale cyan coating on plywood (Body)	3	2	ND
3. Light cyan coating on wood (Runner, bead) + Dark grey coating on wood (Bead, eye) + Dark red coating on wood (Bead)	3	3	ND
4. Yellow-green coating on wood (Runner) + Cyan coating on wood (Bead) + Bright orange coating on wood (Bead)	3	4	ND
5. Pale green coating on metal (Pole) + Light orange coating on metal (Pole)	3	5	ND



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Soluble Heavy Metal Content

Test Item(s)				Pb	Sb	As	Ba	Cd	Cr	Hg	Se
MDL (ppm)				5	5	2.5	10	5	5	5	10
Migration Limit (ppm)				90	60	25	1000	75	60	60	500
Specimen No.	Alias No.	Tracing No.	Mass of trace amount (mg)	Adjusted Migration Result(s) (ppm)							
1	1	2	65.6	ND	ND	ND	ND	ND	ND	ND	ND
2	1	3	33.1	ND	ND	ND	ND	ND	ND	ND	ND
3	1	4	27.7	ND	ND	ND	46	ND	ND	ND	ND
4	1	12	/	ND	ND	ND	ND	ND	ND	ND	ND
5	1	13	/	ND	ND	ND	ND	ND	ND	ND	ND
6	1	14	/	ND	ND	ND	ND	ND	ND	ND	ND
7	1	15	/	ND	ND	ND	ND	ND	ND	ND	ND
8	1	16	/	ND	ND	ND	ND	ND	ND	ND	ND
9	1	17	65.9	ND	ND	ND	ND	ND	ND	ND	ND
10	1	18	34.0	ND	ND	ND	ND	ND	ND	ND	ND
11	1	19	/	ND	ND	ND	ND	ND	ND	ND	ND
12	1	20	/	ND	ND	ND	ND	ND	ND	ND	ND
13	1	21	/	ND	ND	ND	ND	ND	ND	ND	ND
14	1	22	/	ND	ND	ND	ND	ND	ND	ND	ND



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Specimen Description:

1. Transparent lacquer coating on wood & plywood (Body)
2. White coating on plywood & wood (Body)
3. Red coating on wood (Body, runner, bead, nose)
4. Multi-color coating on wood & plywood (Pattern)
5. Light orange coating on plywood (Body)
6. Pale cyan coating on plywood (Body)
7. Light cyan coating on wood (Runner, bead)
8. Yellow-green coating on wood (Runner)
9. Dark grey coating on wood (Bead, eye)
10. Dark red coating on wood (Bead)
11. Cyan coating on wood (Bead)
12. Pale green coating on metal (Pole)
13. Light orange coating on metal (Pole)
14. Bright orange coating on wood (Bead)

- Note:
- ppm = parts per million
 - 1% = 10000 mg/kg = 10000 ppm = 10000 µg/g
 - MDL = Method Detection Limit
 - ND = Not Detected (lower than MDL)
 - Migration results of eight elements shown are of the adjusted analytical results
 - The result(s) is (are) calculated using the minimum specimen weight for composite test.
 - As received, test portion of black coating on plywood (Lettering), brown coating on plywood (Pattern) is(are) less than 10 mg, therefore such component(s) was(were) not tested for certain migration elements, as specified in ASTM F963-17 Clause 8.3.3.6 (2) – Selection of Test Portions



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ASTM F963-17, Clause 4.3.5.2 – Heavy Elements in Substrate Materials

Method (non-metallic materials): With reference to CPSC-CH-E1002-08.3

Method (metal materials): With reference to CPSC-CH-E1001-08.3

Method: With reference to ASTM F963-17 Clause 8.3

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)

Total Lead Content

Test Item(s)			Lead (Pb)
MDL (ppm)			10
Total Limit (ppm)			100
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
1. Cream plywood (Body)	2	1	ND
2. Translucent white plastic (Light) + Yellow plastic (Button) + Transparent plastic (Turntable)	2	2	ND
3. Light green plastic (Box) + Cyan plastic (Holder)	2	3	ND
4. White plastic (Bead) + Translucent white plastic (Washer)	2	4	ND
5. Silvery metal big screw	4	1	ND
6. Silvery metal cap screw	4	2	ND
7. Silvery metal pole	4	3	ND
8. Silvery metal rivet	4	4	ND
9. Bright silvery metal nut	4	5	ND
10. Silvery metal small screw	4	6	ND
11. Silvery metal medium screw	4	7	ND



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Soluble Heavy Metal Content

Test Item(s)				Pb	Sb	As	Ba	Cd	Cr	Hg	Se
MDL (ppm)				5	5	2.5	10	5	5	5	10
Migration Limit (ppm) -- Other Than Modeling Clays				90	60	25	1000	75	60	60	500
Migration Limit (ppm) -- Modeling Clays				90	60	25	250	50	25	25	500
Specimen No.	Alias No.	Tracing No.	Mass of trace amount (mg)	Adjusted Migration Result(s) (ppm)							
1	1	1	/	ND	ND	ND	ND	ND	ND	ND	ND
2	1	5	/	ND	ND	ND	ND	ND	ND	ND	ND
3	1	6	/	ND	ND	ND	ND	ND	ND	ND	ND
4	1	7	/	ND	ND	ND	ND	ND	ND	ND	ND
5	1	8	/	ND	ND	ND	ND	ND	ND	ND	ND
6	1	9	/	ND	ND	ND	ND	ND	ND	ND	ND
7	1	10	/	ND	ND	ND	ND	ND	ND	ND	ND
8	1	11	/	ND	ND	ND	ND	ND	ND	ND	ND

Specimen Description:

1. Cream plywood (Body)
2. Translucent white plastic (Light)
3. Yellow plastic (Button)
4. Transparent plastic (Turntable)
5. Light green plastic (Box)
6. Cyan plastic (Holder)
7. White plastic (Bead)
8. Translucent white plastic (Washer)

Note:

- ppm = parts per million
- 1% = 10000 mg/kg = 10000 ppm =10000 µg/g
- ND = Not Detected (lower than MDL)
- MDL = Method Detection Limit
- Migration results of eight elements shown are of the adjusted analytical results
- The result(s) is (are) calculated using the minimum specimen weight for composite test.



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CPSC 16 CFR 1303 - Lead in Paint/Similar Surface Coating Materials

Method: With reference to CPSC-CH-E1003-09.1 - Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings

Test Item(s)			Lead (Pb)
Permissible Limit (ppm)			90
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
1. Transparent lacquer coating on wood & plywood (Body) + White coating on plywood & wood (Body) w/ black coating on plywood (Lettering), brown coating on plywood (Pattern) + Red coating on wood (Body, runner, bead, nose)	5	1	ND
2. Multi-color coating on wood & plywood (Pattern) + Light orange coating on plywood (Body) + Pale cyan coating on plywood (Body)	5	2	ND
3. Light cyan coating on wood (Runner, bead) + Dark grey coating on wood (Bead, eye) + Dark red coating on wood (Bead)	5	3	ND
4. Yellow-green coating on wood (Runner) + Cyan coating on wood (Bead) + Bright orange coating on wood (Bead)	5	4	ND
5. Pale green coating on metal (Pole) + Light orange coating on metal (Pole)	5	5	ND

- Note:
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As specified in Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children's products.

- Tracking label found on the packaging:

- 1) Name: Hape International AG
- 2) Location: P1922401496NBCN 10/2019 MADE IN CHINA
- 3) Date: P1922401496NBCN 10/2019
- 4) Cohort information: P1922401496NBCN 10/2019

- Tracking label found on the product:

- 1) Name: Hape International AG
- 2) Location: P1922401496NBCN 10/2019
- 3) Date: P1922401496NBCN 10/2019
- 4) Cohort information: P1922401496NBCN 10/2019

Note: The tracking label assessment was based on the submitted samples and the information provided by the applicant. There was no verification on the validity of such information.

CPSIA - Lead in Paint/Similar Surface Coating Materials

Method: With reference to CPSC-CH-E1003-09.1 - Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings

Test Item(s)			Lead (Pb)
Permissible Limit (ppm)			90
Client's Limit (ppm)			40
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
1. Transparent lacquer coating on wood & plywood (Body) + White coating on plywood & wood (Body) w/ black coating on plywood (Lettering), brown coating on plywood (Pattern) + Red coating on wood (Body, runner, bead, nose)	6	1	ND
2. Multi-color coating on wood & plywood (Pattern) + Light orange coating on plywood (Body) + Pale cyan coating on plywood (Body)	6	2	ND
3. Light cyan coating on wood (Runner, bead) + Dark grey coating on wood (Bead, eye) + Dark red coating on wood (Bead)	6	3	ND
4. Yellow-green coating on wood (Runner) + Cyan coating on wood (Bead) + Bright orange coating on wood (Bead)	6	4	ND
5. Pale green coating on metal (Pole) + Light orange coating on metal (Pole)	6	5	ND



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CPSIA - Lead in Accessible Substrate Materials

Method (non-metallic materials): With reference to CPSC-CH-E1002-08.3 - Standard Operation Procedure for Determining Total Lead (Pb) in Non-Metal Children Product

Method (metal materials): With reference to CPSC-CH-E1001-08.3 - Standard Operating Procedure for Determining Total Lead (Pb) in Children's Metal Products (Including Children's Metal Jewelry)

Test Item(s)			Lead (Pb)
Permissible Limit ** (ppm)			100
Client's Limit (ppm)			40
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
1. Cream plywood (Body)	7	1	ND
2. Translucent white plastic (Light) + Yellow plastic (Button) + Transparent plastic (Turntable)	7	2	ND
3. Light green plastic (Box) + Cyan plastic (Holder)	7	3	ND
4. White plastic (Bead) + Translucent white plastic (Washer)	7	4	ND
5. Silvery metal big screw	8	1	ND
6. Silvery metal cap screw	8	2	ND
7. Silvery metal pole	8	3	ND
8. Silvery metal rivet	8	4	ND
9. Bright silvery metal nut	8	5	ND
10. Silvery metal small screw	8	6	ND
11. Silvery metal medium screw	8	7	ND

** Permissible Limit applies to a children's product manufactured after 14 August 2011 (Public Law 110-314 (Consumer Product Safety Improvement Act of 2008) and its Amendments Public Law 112-28)



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N.B. : - Only applicable clauses were shown.

Sample Photo:



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