



中国认可
国际互认
检测
TESTING
CNAS L2929

Test Report

No.: T51810220376TY

Date: MAY 31, 2018

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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:

CITY FIRE STATION

Item No.	:	E3023, E3023A
Country of Origin	:	CHINA
Country of Destination	:	GLOBEL
Labeled Age Grading	:	3Y+
Requested Age Grading	:	3Y+
Age Group Assessed As Per Age	:	OVER 3 YEARS
Guideline		
Age Group Applied in Testing	:	OVER 3 YEARS
Sample Receiving Date	:	APR 04, 2018
Last Submission Sample Date	:	APR 28, 2018
Testing Period	:	APR 04, 2018 TO MAY 31, 2018



SGS-CSTC Standards Technical Services Co., Ltd.
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.	--
	ASTM F963-17 Standard Consumer Safety Specification for Toy Safety	PASS
	Client's Requirement – Total Lead content	PASS*
2.	Tracking label per Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children's products.	SEE RESULT PAGE*
3.	CPSIA section 101 - Total Lead content	--
3.1	CPSIA section 101(f) (1) – Lead in paint/similar surface coating material	PASS
	Client's Requirement – Lead in paint/similar surface coating material	PASS*
3.2	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




Ouyang Qin, Cansy
Section Manager
CNAS Approved Signatories

Liu Junjie, Tony
Section 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 **	<u>Pass</u>
4.2	Flammability Test	<u>Pass</u> (See Result Page)
4.3	Toxicology	
4.3.5	Heavy Elements	
4.3.5.1	Heavy Elements in Paint/Similar Surface Coating Materials	<u>Pass</u> (See Result Page)
4.3.5.2	Heavy Metal in Substrate Materials	<u>Pass</u> (See Result Page)
4.5	Sound-Producing Toys	<u>Pass</u>
4.6.3	Labelling Requirements	<u>Pass</u>
4.7	Accessible Edges	<u>Pass</u>
4.8	Projections	<u>Pass</u>
4.9	Accessible Points	<u>Pass</u>
4.10	Wires or Rods	<u>Pass</u>
4.11	Nails and Fasteners	<u>Pass</u>
4.12	Plastic Film	<u>Pass</u>
4.13.2	Hinge-Line Clearance	<u>Pass</u>
4.17	Wheels, Tires, and Axles	<u>Pass</u>
4.25	Battery-Operated Toys (Non-rechargeable battery)	<u>Pass</u>
5	Safety Labeling Requirements	
5.2	Age Grading Labeling	<u>Pass</u>
5.3	Safety Labeling Requirements	<u>Pass</u>
5.11	Small Objects, Small Balls, Marbles, and Balloons	<u>Pass</u>
5.16	Promotional Materials	<u>Pass</u>
6	Instructional Literature	
6.5	Battery-Operated Toys	<u>Pass</u>



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Clause	Description	Result
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
8.12	Flexure Test	Pass

** Visual Examination

Result Page:

Flammability Test (Clause 4.2)

Flammability Test on Solid

Sample	Burning Rate (inch/sec)
CITY FIRE STATION	0.03

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.



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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
Client's Limit (ppm)			40
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
1. Bright grey coating on wood (Basketball court) w/ Yellow coating (Door) + Dark grey coating on wood (Control panel)	4	1	ND
2. White coating on wood (Basketball court, chassis, dog) w/ brown coating on wood (Figure) w/ multi-color coating (Sign)	4	2	ND
3. Grey coating on wood (Ladder) + Black coating on wood (Wheel, dog, figure)	4	3	ND
4. Red coating on metal (Bell) w/ red coating (Stopping pad)	4	4	ND
5. Multi-color coating on fabric (Clothes) + Red coating on wood (Helicopter, truck, fire, fire extinguisher, dog)	4	5	ND
6. Yellow w/ light grey, black coating on felt (Flag) + Transparent lacquer coating on wood (Control panel)	4	6	24
7. Multi-color coating on wood (Pattern)	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)				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	/	ND	ND	ND	ND	ND	ND	ND	ND
2	1	3	15.0	ND	ND	ND	ND	ND	ND	ND	ND
3	1	4	10.4	ND	ND	ND	ND	ND	ND	ND	ND
4	1	5	15.9	ND	ND	ND	ND	ND	ND	ND	ND
5	1	6	/	ND	ND	ND	ND	ND	ND	ND	ND
6	1	7	/	ND	ND	ND	ND	ND	ND	ND	ND
7	1	8	10.2	ND	ND	ND	ND	ND	ND	ND	ND
8	1	9	/	ND	ND	ND	64	ND	ND	ND	ND
9	1	10	71.3	ND	ND	ND	ND	ND	ND	ND	ND
10	1	30	/	ND	ND	ND	ND	ND	ND	ND	ND
11	1	35	/	ND	ND	ND	ND	ND	ND	ND	ND
12	1	1	/	ND	ND	ND	ND	ND	ND	ND	ND



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Specimen Description:

1. Bright grey coating on wood (Basketball court)
2. White coating on wood (Basketball court, chassis, dog)
3. Yellow coating (Door)
4. Grey coating on wood (Ladder)
5. Black coating on wood (Wheel, dog, figure)
6. Dark grey coating on wood (Control panel)
7. Red coating on metal (Bell)
8. Multi-color coating on fabric (Clothes)
9. Yellow w/ light grey, black coating on felt (Flag)
10. Red coating on wood (Helicopter, truck, fire, fire extinguisher, dog)
11. Transparent lacquer coating on wood (Control panel)
12. Multi-color coating on wood (Pattern)

- 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 red coating (Stopping pad), brown coating on wood (Figure), multi-color coating (Sign) 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
 - For Soluble Heavy Metal Content:
Result(s) of specimen No.2 is(are) extracted from report No. T51810191468TY.
Result(s) of specimen No.5 is(are) extracted from report No. T51710291751TY-01.
Result(s) of specimen No.10 – No.11 is(are) extracted from report No. T51710241984TY.



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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
Client's Limit (ppm)			40
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
1. Cream plywood	2	1	ND
2. Light grey plastic (Fire hydrant)	2	2	ND
3. Dark grey plastic (Stopping pad) + Pale grey plastic (Flag) + Black plastic (Fire extinguisher)	2	3	ND
4. Grey plastic (Helicopter, truck) + Transparent light blue plastic (Helicopter, truck) + Transparent red plastic (Light)	2	4	ND
5. Transparent blue plastic (Light) + Red plastic (Button, door, figure, bead, connector) + Light apricot plastic (Truck)	2	5	ND
6. Yellow plastic (Figure, radar) + Transparent hot melt glue (Figure) + Brown wood w/ white material (Dog)	2	6	ND
7. Dark brown hardboard + Red plastic (Fire hydrant, axe) + Apricot plastic (Figure)	2	7	ND
8. White rubber core (Elastic cord)	3	1	ND
9. Silvery metal bell	5	1	ND
10. Silvery metal rivet (Truck, helicopter)	5	2	ND



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Test Item(s)	Lead (Pb)		
MDL (ppm)	10		
Total Limit (ppm)	100		
Client's Limit (ppm)	40		
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
11. Silvery metal screw (Truck)	5	3	ND
12. Silvery metal small screw (Truck)	5	4	ND
13. Silvery metal screw (Helicopter)	5	5	ND
14. Silvery metal thick wire (Leg, hand)	5	6	ND
15. Silvery metal flat screw	5	7	ND
16. Silvery metal hexagonal screw	5	8	ND
17. Silvery metal holder	5	9	ND
18. Silvery metal pole	5	10	ND
19. Silvery metal small rivet	5	11	ND
20. Bright silvery metal screw	5	12	ND
21. Golden metal plate (Fire hydrant) (Submitted on Apr 17, 2018)	01T-1	1	23
22. Silvery metal tube of small rivet	5	14	ND



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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	11	/	ND	ND	ND	ND	ND	ND	ND	ND
2	1	12	/	ND	ND	ND	ND	ND	ND	ND	ND
3	1	13	/	ND	ND	ND	ND	ND	ND	ND	ND
4	1	14	/	ND	ND	ND	ND	ND	ND	ND	ND
5	1	15	/	ND	ND	ND	ND	ND	ND	ND	ND
6	1	16	/	ND	ND	ND	ND	ND	ND	ND	ND
7	1	17	/	ND	ND	ND	ND	ND	ND	ND	ND
8	1	18	/	ND	ND	ND	ND	ND	ND	ND	ND
9	1	19	/	ND	ND	ND	ND	ND	ND	ND	ND
10	1	20	/	ND	ND	ND	ND	ND	ND	ND	ND
11	1	21	72.8	ND	ND	ND	ND	ND	ND	ND	ND
12	1	22	/	ND	ND	ND	ND	ND	ND	ND	ND
13	1	23	/	ND	ND	ND	ND	ND	ND	ND	ND
14	1	24	/	ND	ND	ND	ND	ND	ND	ND	ND
15	1	25	/	ND	ND	ND	ND	ND	ND	ND	ND
16	1	26	/	ND	ND	ND	ND	ND	ND	ND	ND
17	1	27	/	ND	ND	ND	ND	ND	ND	ND	ND



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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)							
18	1	28	/	ND	ND	ND	ND	ND	ND	ND	ND
19	1	29	/	ND	ND	ND	ND	ND	ND	ND	ND
20	1	31	/	ND	ND	ND	ND	ND	ND	ND	ND
21	1	32	/	ND	ND	ND	ND	ND	ND	ND	ND
22	1	33	/	ND	ND	ND	ND	ND	ND	ND	ND
23	1	34	/	ND	ND	ND	ND	ND	ND	ND	ND
24	1	36	/	ND	ND	ND	ND	ND	ND	ND	ND

Specimen Description:

1. Dark grey plastic (Stopping pad)
2. Grey plastic (Helicopter, truck)
3. Transparent light blue plastic (Helicopter, truck)
4. Transparent red plastic (Light)
5. Transparent blue plastic (Light)
6. Pale grey plastic (Flag)
7. Light grey plastic (Fire hydrant)
8. Red plastic (Fire hydrant, axe)
9. Black plastic (Fire extinguisher)
10. Apricot plastic (Figure)
11. Transparent hot melt glue (Figure)



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Specimen Description:

12. Dark brown hardboard
13. White fabric cord
14. White fabric cord (Fire hydrant)
15. Red felt (Flag)
16. Grey fabric w/ grey fabric thread (Clothes)
17. Cream woven cord (Figure)
18. Red woven band (Elastic band)
19. Brown wood w/ white material (Dog)
20. Red plastic (Button, door, figure, bead, connector)
21. Yellow plastic (Figure, radar)
22. Cream plywood
23. Light apricot plastic (Truck)
24. White rubber core (Elastic cord)

- 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.
 - For Soluble Heavy Metal Content:
Result(s) of specimen No.13 is(are) extracted from report No. T51710261971TY.
Result(s) of specimen No.20 is(are) extracted from report No. T51810191736TY.
Result(s) of specimen No.21 is(are) extracted from report No. T51810210351TY-01.
Result(s) of specimen No.22– No.23 is(are) extracted from report No. T51710291022TY.



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Tracking Label

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: Made in China NBCN BL0033
 - 3) Date: NBCN BL0033
 - 4) Cohort information: NBCN BL0033
- Tracking label found on the product:
 - 1) Name: Hape International AG
 - 2) Location: Made in China NBCN BL0033
 - 3) Date: NBCN BL0033
 - 4) Cohort information: NBCN BL0033

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. Bright grey coating on wood (Basketball court) w/ Yellow coating (Door) + Dark grey coating on wood (Control panel)	7	1	ND
2. White coating on wood (Basketball court, chassis, dog) w/ brown coating on wood (Figure) w/ multi-color coating (Sign)	7	2	ND
3. Grey coating on wood (Ladder) + Black coating on wood (Wheel, dog, figure)	7	3	ND
4. Red coating on metal (Bell) w/ red coating (Stopping pad)	7	4	ND
5. Multi-color coating on fabric (Clothes) + Red coating on wood (Helicopter, truck, fire, fire extinguisher, dog)	7	5	ND
6. Yellow w/ light grey, black coating on felt (Flag) + Transparent lacquer coating on wood (Control panel)	7	6	24
7. Multi-color coating on wood (Pattern)	7	7	ND

- Note:
- ppm = parts per million
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit = 10 ppm
 - 1% = 10000 mg/kg = 10000 ppm
 - The result(s) is (are) calculated using the minimum specimen weight for composite test.



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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	6	1	ND
2. Light grey plastic (Fire hydrant)	6	2	ND
3. Dark grey plastic (Stopping pad) + Pale grey plastic (Flag) + Black plastic (Fire extinguisher)	6	3	ND
4. Grey plastic (Helicopter, truck) + Transparent light blue plastic (Helicopter, truck) + Transparent red plastic (Light)	6	4	ND
5. Transparent blue plastic (Light) + Red plastic (Button, door, figure, bead, connector) + Light apricot plastic (Truck)	6	5	ND
6. Yellow plastic (Figure, radar) + Transparent hot melt glue (Figure) + Brown wood w/ white material (Dog)	6	6	ND
7. Dark brown hardboard + Red plastic (Fire hydrant, axe) + Apricot plastic (Figure)	6	7	ND
8. White rubber core (Elastic cord)	8	1	ND
9. Silvery metal bell	9	1	ND
10. Silvery metal rivet (Truck, helicopter)	9	2	ND
11. Silvery metal screw (Truck)	9	3	ND
12. Silvery metal small screw (Truck)	9	4	ND
13. Silvery metal screw (Helicopter)	9	5	ND
14. Silvery metal thick wire (Leg, hand)	9	6	ND
15. Silvery metal flat screw	9	7	ND



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Test Item(s)			Lead (Pb)
Permissible Limit ^{**} (ppm)			100
Client's Limit (ppm)			40
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
16. Silvery metal hexagonal screw	9	8	ND
17. Silvery metal holder	9	9	ND
18. Silvery metal pole	9	10	ND
19. Silvery metal small rivet	9	11	ND
20. Bright silvery metal screw	9	12	ND
21. Golden metal plate (Fire hydrant) (Submitted on Apr 17, 2018)	02T-1	1	23
22. Silvery metal tube of small rivet	9	14	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)

- Note:
- ppm = parts per million
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit = 10 ppm
 - 1% = 10000 mg/kg = 10000 ppm
 - The result(s) is (are) calculated using the minimum specimen weight for composite test.

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



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Sample Photo:



SGS authenticate the photo on original report only

*** End of Report ***