



中国认可
国际互认
检测
TESTING
CNAS L2929

Test Report

No.: T52110261209TY

Date: JUN 17, 2021

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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:

E0305 POUND AND TAP BENCH

Item No. : E0305
Country of Destination : GLOBEL
Client Reference Information : E0305D
Labeled Age Grading : 12M+
Requested Age Grading : 12M+

Age Group Assessed by SGS As Per Age : OVER 12 MONTHS
Guideline
Age Group Applied in Testing : OVER 12 MONTHS
Sample Receiving Date : MAY 14, 2021
Last Submission Sample Date : MAY 24, 2021
Testing Period : MAY 14, 2021 TO JUN 17, 2021



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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
2.	For compliance with test requirement of the Physical & Mechanical, Flammability test requirement of Title 16, Code of Federal Regulations, Chapter II – Consumer Products Safety Commission of U.S.A	--
	Physical and mechanical tests consisting US CPSC 16 CFR 1500.48, US CPSC 16 CFR 1500.49 and US CPSC 16 CFR 1501: <ul style="list-style-type: none"> - US CPSC 16 CFR 1500.48 – Technical requirements for determining a sharp point in toys and other articles intended for use by children under 8 years of ages - US CPSC 16 CFR 1500.49 – Technical requirements for determining a sharp metal or glass edge in toys and other articles intended for use by children under 8 years of age - US CPSC 16 CFR 1501 – Method for identifying toys and other articles intended for use by children under 3 years of age which present choking, aspiration, or ingestion hazards because of small parts 	PASS
	US CPSC 16 CFR 1500.44 – Method for determining extremely flammable and flammable solids	PASS
3.	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
4.	Tracking label per Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children's products.	PASS*



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Test Requested		Conclusion
5.	CPSIA section 101 - Total Lead content	--
5.1	CPSIA section 101(f) (1) – Lead in paint/similar surface coating material	PASS
	Client's Requirement – Lead in paint/similar surface coating material	PASS
5.2	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





Qu Ping, Kiky
Dept. Manager
CNAS Approved Signatories

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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 **	Pass
4.2	Flammability Test	Pass (See Result Page)
4.3	Toxicology	
4.3.2	Manufacturing and Packaging of Food	N/A
4.3.3	Indirect Food Additives	N/A
4.3.4	Cosmetics	N/A
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)
4.3.6	Cosmetic, Liquids, Pastes, Putties, Gels, Powders and Item of Avian Feather Origin	N/A
4.3.7	Stuffing Materials	N/A
4.3.8	DEHP (DOP)	N/A
4.4	Electrical/Thermal Energy	N/A
4.5	Sound-Producing Toys	N/A
4.6.1	Small Objects	Pass
4.6.2	Mouth-Actuated Toys	N/A
4.6.3	Labelling Requirements	N/A
4.7	Accessible Edges	Pass
4.8	Projections	N/A
4.9	Accessible Points	Pass
4.10	Wires or Rods	N/A
4.11	Nails and Fasteners	Pass
4.12	Plastic Film	N/A
4.13.1	Folding Mechanisms	N/A
4.13.2	Hinge-Line Clearance	N/A



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Clause	Description	Result
4.14	Cords, Straps and Elastic	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 & 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
4.25	Battery-Operated Toys (Rechargeable battery/Non-rechargeable battery)	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	Toy Gun Marking	N/A
4.31	Balloons	N/A
4.32	Certain Toys and Nearly Spherical Ends	N/A
4.33	Marbles	N/A
4.34	Balls	Pass
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 Handles and Steering Wheels	N/A
4.40	Expanding Materials	N/A
4.41	Toy Chest	N/A
5	Safety Labeling Requirements	
5.2	Age Grading Labeling	Pass
5.3	Safety Labeling Requirements	N/A
5.4	Aquatic Toys	N/A
5.5	Crib & Playpen Toys	N/A
5.6	Mobile	N/A
5.7	Stroller and Carriage Toys	N/A
5.8	Toys Intended to be Assembled by an Adult	N/A



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Clause	Description	Result
5.9	Simulated Protective Devices	N/A
5.10	Toys with Functional Sharp Edges and Sharp 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
5.14	Electric Toys	N/A
5.15	Battery-Operated Toys	N/A
5.16	Promotional Materials	Pass
5.17	Magnets	N/A
6	Instructional Literature	
6.2	Crib & Playpen Toys	N/A
6.3	Mobiles	N/A
6.4	Toys Intended to be Assembled by an Adult	N/A
6.5	Battery-Operated Toys	N/A
6.6	Battery Powered Ride-on Toys	N/A
6.7	Toys in Contact with Food	N/A
6.8	Toy Chests	N/A
7	Producer's Markings	
7.1	Producer's Markings	Pass
7.2	Battery-Powered Ride-on Toys	N/A
7.3	Toy Chests	N/A
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	N/A
8.16	Tension Test for Pompoms	N/A

N/A = Not Applicable

** Visual Examination



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Result Page:

Flammability Test (Clause 4.2)

Flammability Test on Solid

Sample

E0305 POUND AND TAP BENCH

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

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 w/ red coating on wood (Ball) + Transparent lacquer w/ blue coating on wood (Ball) + Transparent lacquer w/ green, dark green coating on wood (Ball)	3	1	ND
2. Multi-color coating on wood (Pattern) + Orange w/ yellow coating on wood (Pattern) w/ Brown coating on wood (Pattern)	3	2	ND
3. Transparent lacquer coating on wood (Body, hammer) w/ Dull blue coating on wood (Body) w/ Dull green coating on wood (Body) w/ Dull red coating on wood (Body)	3	3	ND
4. Orange coating on metal (Key) + Yellow coating on metal (Key) + Light green coating on metal (Key)	3	4	ND
5. Blue coating on metal (Key) + Dark blue coating on metal (Key) + Light purple coating on metal (Key)	3	5	ND
6. Purple coating on metal (Key) + Red coating on metal (Key)	3	6	ND
7. Transparent lacquer w/ green, orange, light blue, red coating on wood (Hammer)	01T-5	1	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	7	/	ND	ND	ND	ND	ND	ND	ND	ND
2	1	8	/	ND	ND	ND	ND	ND	ND	ND	ND
3	1	9	/	ND	ND	ND	ND	ND	ND	ND	ND
4	1	10	/	ND	ND	ND	ND	ND	ND	ND	ND
5	1	11	/	ND	ND	ND	ND	ND	ND	ND	ND
6	1	15	/	ND	ND	ND	12	ND	ND	ND	ND
7	1	16	/	ND	ND	ND	39	ND	ND	ND	ND
8	1	17	/	ND	ND	ND	26	ND	ND	ND	ND
9	1	18	/	ND	ND	ND	30	ND	ND	ND	ND
10	1	19	/	ND	ND	ND	36	ND	ND	ND	ND
11	1	20	/	ND	ND	ND	18	ND	ND	ND	ND
12	1	23	/	ND	ND	ND	ND	ND	ND	ND	ND
13	1	24	/	ND	ND	ND	ND	ND	ND	ND	ND
14	1	25	/	ND	ND	ND	ND	ND	ND	ND	ND
15	01T-3	2	11.0	ND	ND	ND	ND	ND	ND	ND	ND
16	01T-3	4	25.1	ND	ND	ND	36	ND	ND	ND	ND
17	01T-3	5	/	ND	ND	ND	ND	ND	ND	ND	ND



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Specimen Description:

1. Transparent lacquer w/ red coating on wood (Ball)
2. Transparent lacquer w/ blue coating on wood (Ball)
3. Transparent lacquer w/ green, dark green coating on wood (Ball)
4. Multi-color coating on wood (Pattern)
5. Orange w/ yellow coating on wood (Pattern)
6. Orange coating on metal (Key)
7. Yellow coating on metal (Key)
8. Light green coating on metal (Key)
9. Blue coating on metal (Key)
10. Dark blue coating on metal (Key)
11. Light purple coating on metal (Key)
12. Transparent lacquer coating on wood (Body, hammer)
13. Purple coating on metal (Key)
14. Red coating on metal (Key)
15. Orange coating on wood (Hammer)
16. Green coating on wood (Hammer)
17. Light blue coating on wood (Hammer)



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- 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
 - For Soluble Heavy Metal Content & Total Lead Content in composite: The decision rule has prescribed in the regulation or standard, conformity reporting will base on the standard.
 - The result(s) is (are) calculated using the minimum specimen weight for composite test.
 - Soluble Heavy Metal Content : Result(s) of specimen No.12 is(are) extracted from report No. T52010321983TY-01.
 - Soluble Heavy Metal Content : Result(s) of specimen No.13 - No.14, No.17 is(are) extracted from report No. T52010290215TY.
 - Soluble Heavy Metal Content : Result(s) of specimen No.16 is(are) extracted from report No. T52110230914TY

Remark: As received, below test portion(s) 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

Dull blue coating on wood (Body)
 Dull green coating on wood (Body)
 Dull red coating on wood (Body)
 Brown coating on wood (Pattern)
 Red coating on wood (Hammer)



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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. Grey-white plastic (Screw) + Translucent soft plastic (Hole) + Transparent dry glue (Fastener)	2	1	ND
2. Grey soft plastic (TPE) (Key) + Light grey plastic (ABS) (Key) + Red plastic (HDPE) (Hammer)	2	2	ND
3. Cream plywood	2	3	ND
4. Silvery metal screw (Body)	4	1	ND
5. Silvery metal plate (Key) (Red)	4	2	ND
6. Silvery metal plate (Key) (Orange)	4	3	ND
7. Silvery metal plate (Key) (Yellow)	4	4	ND
8. Silvery metal plate (Key) (Light green)	4	5	ND
9. Silvery metal plate (Key) (Blue)	4	6	ND
10. Silvery metal plate (Key) (Dark blue)	4	7	ND
11. Silvery metal plate (Key) (Light purple)	4	8	ND
12. Silvery metal plate (Key) (Purple)	4	9	ND
13. Cream soft plastic (TPE) (Hammer)	01T-4	1	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	2	/	ND	ND	ND	ND	ND	ND	ND	ND
3	1	3	/	ND	ND	ND	ND	ND	ND	ND	ND
4	1	4	/	ND	ND	ND	ND	ND	ND	ND	ND
5	1	5	/	ND	ND	ND	ND	ND	ND	ND	ND
6	1	6	30.1	ND	ND	ND	ND	ND	ND	ND	ND
7	1	22	/	ND	ND	ND	ND	ND	ND	ND	ND
8	01T-3	1	/	ND	ND	ND	ND	ND	ND	ND	ND

Specimen Description:

1. Grey-white plastic (Screw)
2. Grey soft plastic (TPE) (Key)
3. Light grey plastic (ABS) (Key)
4. Translucent soft plastic (Hole)
5. Red plastic (HDPE) (Hammer)
6. Transparent dry glue (Fastener)
7. Cream plywood
8. Cream soft plastic (TPE) (Hammer)



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 - The result(s) is (are) calculated using the minimum specimen weight for composite test.
 - Soluble Heavy Metal Content : Result(s) of specimen No.7 is(are) extracted from report No. T52010321542TY.

US CPSC

PHYSICAL AND MECHANICAL TESTS CONSISTING US CPSC 16 CFR 1500.48, US CPSC 16 CFR 1500.49 AND US CPSC 16 CFR 1501

AS SPECIFIED IN PHYSICAL AND MECHANICAL TESTS CONSISTING US CPSC 16 CFR 1500.48, US CPSC 16 CFR 1500.49 AND US CPSC 16 CFR 1501

	No. of sample tested	Sharp point (16 CFR 1500.48)	Sharp edge (16 CFR 1500.49)	Small part (16 CFR 1501)
As received	1	Pass	Pass	Pass
Impact test (16 CFR 1500.51b)	1	Pass	Pass	Pass
Bite test (16 CFR 1500.52c)	1	N/A	N/A	N/A
Flexure test (16 CFR 1500.53d)	0	N/A	N/A	N/A
Torque test (16 CFR 1500.53e)	1	Pass	Pass	Pass
Tension test (16 CFR 1500.52f)	1	Pass	Pass	Pass
Compression test (16 CFR 1500.53g)	1	Pass	Pass	Pass

N/A = Not Applicable



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US CPSC 16 CFR 1500.44 – METHOD FOR DETERMINING EXTREMELY FLAMMABLE AND FLAMMABLE SOLIDS

AS SPECIFIED IN US CPSC 16 CFR 1500.44 – METHOD FOR DETERMINING EXTREMELY FLAMMABLE AND FLAMMABLE SOLIDS

Sample
E0305 POUND AND TAP BENCH

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

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 w/ red coating on wood (Ball) + Transparent lacquer w/ blue coating on wood (Ball) + Transparent lacquer w/ green, dark green coating on wood (Ball)	5	1	ND
2. Multi-color coating on wood (Pattern) + Orange w/ yellow coating on wood (Pattern) w/ Brown coating on wood (Pattern)	5	2	ND
3. Transparent lacquer coating on wood (Body, hammer) w/ Dull blue coating on wood (Body) w/ Dull green coating on wood (Body) w/ Dull red coating on wood (Body)	5	3	ND
4. Orange coating on metal (Key) + Yellow coating on metal (Key) + Light green coating on metal (Key)	5	4	ND
5. Blue coating on metal (Key) + Dark blue coating on metal (Key) + Light purple coating on metal (Key)	5	5	ND
6. Purple coating on metal (Key) + Red coating on metal (Key)	5	6	ND
7. Transparent lacquer w/ green, orange, light blue, red coating on wood (Hammer)	01T-8	1	ND



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- Note:
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 - MDL = Method Detection Limit = 10 ppm
 - 1% = 10000 mg/kg = 10000 ppm
 - For composite test: The result(s) is (are) calculated using the minimum specimen weight and the decision rule has prescribed in the regulation or standard, conformity reporting will base on the standard.

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 P2011240105NBCN 04/2021
 - 3) Date: P2011240105NBCN 04/2021
 - 4) Cohort information: P2011240105NBCN 04/2021
- Tracking label found on the product:
 - 1) Name: Hape International AG
 - 2) Location: P2011240105NBCN 04/2021
 - 3) Date: P2011240105NBCN 04/2021
 - 4) Cohort information: P2011240105NBCN 04/2021

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.



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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 w/ red coating on wood (Ball) + Transparent lacquer w/ blue coating on wood (Ball) + Transparent lacquer w/ green, dark green coating on wood (Ball)	7	1	ND
2. Multi-color coating on wood (Pattern) + Orange w/ yellow coating on wood (Pattern) w/ Brown coating on wood (Pattern)	7	2	ND
3. Transparent lacquer coating on wood (Body, hammer) w/ Dull blue coating on wood (Body) w/ Dull green coating on wood (Body) w/ Dull red coating on wood (Body)	7	3	ND
4. Orange coating on metal (Key) + Yellow coating on metal (Key) + Light green coating on metal (Key)	7	4	ND
5. Blue coating on metal (Key) + Dark blue coating on metal (Key) + Light purple coating on metal (Key)	7	5	ND
6. Purple coating on metal (Key) + Red coating on metal (Key)	7	6	ND
7. Transparent lacquer w/ green, orange, light blue, red coating on wood (Hammer)	01T-9	1	ND

- Note:
- ppm = parts per million
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit = 10 ppm
 - 1% = 10000 mg/kg = 10000 ppm
 - For composite test: The result(s) is (are) calculated using the minimum specimen weight and the decision rule has prescribed in the regulation or standard, conformity reporting will base on the standard.



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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. Grey-white plastic (Screw) + Translucent soft plastic (Hole) + Transparent dry glue (Fastener)	6	1	ND
2. Grey soft plastic (TPE) (Key) + Light grey plastic (ABS) (Key) + Red plastic (HDPE) (Hammer)	6	2	ND
3. Cream plywood	6	3	ND
4. Silvery metal screw (Body)	8	1	ND
5. Silvery metal plate (Key) (Red)	8	2	ND
6. Silvery metal plate (Key) (Orange)	8	3	ND
7. Silvery metal plate (Key) (Yellow)	8	4	ND
8. Silvery metal plate (Key) (Light green)	8	5	ND
9. Silvery metal plate (Key) (Blue)	8	6	ND
10. Silvery metal plate (Key) (Dark blue)	8	7	ND
11. Silvery metal plate (Key) (Light purple)	8	8	ND
12. Silvery metal plate (Key) (Purple)	8	9	ND
13. Cream soft plastic (TPE) (Hammer)	01T-7	1	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:

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- MDL = Method Detection Limit = 10 ppm
- 1% = 10000 mg/kg = 10000 ppm
- For composite test: The result(s) is (are) calculated using the minimum specimen weight and the decision rule has prescribed in the regulation or standard, conformity reporting will base on the standard.

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



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2. The statement of conformity has considered the decision rule based on the Guarded acceptance (8.3.2 of ISO/IEC GUIDE 98-4:2012). When the measured value falls within the guard band, only the test data and measurement uncertainty will be reported. The guard band is equal to the expanded measurement uncertainty with a 95% coverage probability($k=2$), $w = U_{95}$. The Probability of False Accept and the Probability of False Reject of the decision rule are 2.5%.

For Upper Tolerance Limit (T_U):

Pass - when the measurement result is below $T_U - U_{95}$

Fail - when the measurement result is above $T_U + U_{95}$

Inconclusive - when the measurement result is falling in guard band $[T_U - U_{95}, T_U + U_{95}]$

For Lower Tolerance Limit (T_L):

Pass - when the measurement result is above $T_L + U_{95}$

Fail - when the measurement result is below $T_L - U_{95}$

Inconclusive - when the measurement result is falling in guard band $[T_L - U_{95}, T_L + U_{95}]$

Sample Photo:



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*** End of Report ***



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