



中国认可
国际互认
检测
TESTING
CNAS L2929

Test Report

No.: T52210260188TY

Date: NOV 04, 2022

Page 1 of 27

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:

E1067 SPONGE PAINTING FUN
E1069 COLOR MIX PAINTING
E1071 OODLESOFDOODLESSCRATCHING
E1068 CHALKS AND STENCILS ART
E1070 LETTERS AND NUMBERS TRACING

Item No. : E1067, E1069, E1071, E1068, E1070
Country of Origin : CHINA
Country of Destination : GLOBAL
Client Reference Information : E1067A, E1069A, E1071A, E1068A, E1070A
Labeled Age Grading : 3Y+/4Y+
Requested Age Grading : 3Y+

Age Group Assessed by SGS As Per Age : OVER 3 YEARS
Guideline
Age Group Applied in Testing : OVER 3 YEARS
Sample Receiving Date : APR 06, 2022
Last Submission Sample Date : APR 18, 2022
Further Information Date : SEP 28, 2022
Testing Period : APR 06, 2022 TO NOV 04, 2022



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Test Report

No.: T52210260188TY

Date: NOV 04, 2022

Page 2 of 27

Test Requested		Conclusion
1.	As per client's requirements, flash point test was applied on the submitted sample.	PASS
2.	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
3.	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
4.	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
5.	Tracking label per 15 U.S.C. § 2063(a)(5) and Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children's products.	PASS*



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Test Report

No.: T52210260188TY

Date: NOV 04, 2022

Page 3 of 27

Test Requested		Conclusion
6.	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
7.	Public Act 097-0612 of the US State of Illinois, the Lead Poisoning Prevention Act – Lead in surface coating materials of painted toy / children's jewelry / childcare article	PASS
8.	US California Proposition 65 (ACSC Case No. RG-07-356892 & County of Los Angeles Case No. BC479596) – Lead Content	PASS

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





T52210260188TY

Huang Yao, Lucy
Section Head
CNAS Approved Signatories

Qu Ping, Kiky
Dept. Manager
CNAS Approved Signatories



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Test Report

No.: T52210260188TY

Date: NOV 04, 2022

Page 4 of 27

Results:

Flash Point Test

TESTING : As per client's requirements, flash point test was applied on the submitted sample.
REQUESTED
TEST METHOD : As specified in CPSC 16 CFR 1500.43a test methods for flash-point by closed cup tester.

CONCLUSION : The submitted sample was not Combustible liquid.

Test Component	Result(°C)
Liquid	>65.6 °C

Remark:

Flashpoint	Substance to be considered as
<= -6.7°C	Extremely flammable
> -6.7 °C and <37.8 °C)	Flammable
>=37.8 °C and<=65.6 °C)	Combustible



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Test Report

No.: T52210260188TY

Date: NOV 04, 2022

Page 5 of 27

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	
4.3.2	Manufacturing and Packaging of Food	<u>N/A</u>
4.3.3	Indirect Food Additives	<u>N/A</u>
4.3.4	Cosmetics	<u>N/A</u>
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)
4.3.6	Cosmetic, Liquids, Pastes, Putties, Gels, Powders and Item of Avian Feather Origin	<u>N/A</u>
4.3.7	Stuffing Materials	<u>N/A</u>
4.3.8	DEHP (DOP)	<u>N/A</u>
4.4	Electrical/Thermal Energy	<u>N/A</u>
4.5	Sound-Producing Toys	<u>N/A</u>
4.6.1	Small Objects	<u>N/A</u>
4.6.2	Mouth-Actuated Toys	<u>N/A</u>
4.6.3	Labelling Requirements	<u>N/A</u>
	Remark: The toy does not contain as-received small part.	<u>(See Remark)</u>
4.7	Accessible Edges	<u>Pass</u>
4.8	Projections	<u>N/A</u>
4.9	Accessible Points	<u>Pass</u>
4.10	Wires or Rods	<u>N/A</u>
4.11	Nails and Fasteners	<u>N/A</u>
4.12	Plastic Film	<u>Pass</u>



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Test Report

No.: T52210260188TY

Date: NOV 04, 2022

Page 6 of 27

Clause	Description	Result
4.13.1	Folding Mechanisms	N/A
4.13.2	Hinge-Line Clearance	N/A
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	Pass
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	Pass*
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	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 Handles and Steering Wheels	N/A
4.40	Expanding Materials	N/A
4.41	Toy Chest	N/A



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Test Report

No.: T52210260188TY

Date: NOV 04, 2022

Page 7 of 27

Clause	Description	Result
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
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	Pass
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



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Test Report

No.: T52210260188TY

Date: NOV 04, 2022

Page 8 of 27

N/A = Not Applicable

** Visual Examination

*The test result was based on the client provided documents; and not in the scope of CNAS accreditation.

Requirements	Report No.	Testing Lab	Issue Date
ASTM F963 Clause 4.29/5.13(LHAMA)	T52110220092TA	SGS	Feb 04,2021
	T52210260017TA	SGS	Jun 07,2022
	T52210260019TA	SGS	Apr 29,2022
	T52210260018TA	SGS	Apr 29,2022

Result Page:

Flammability Test (Clause 4.2)

Flammability Test on Solid

Sample

E1067 SPONGE PAINTING FUN
E1069 COLOR MIX PAINTING
E1071 OODLESOFDOODLESSCRATCHING
E1068 CHALKS AND STENCILS ART
E1070 LETTERS AND NUMBERS TRACING

Burning Rate (inch/sec)

0.1*

*Burning rate has been rounded to the nearest one tenth of an inch per second.

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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Test Report

No.: T52210260188TY

Date: NOV 04, 2022

Page 9 of 27

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. Black coating on plastic film (Card) (E1071) w/ Yellow, green, blue, purple, red, orange coating on plastic sheet (Card) (E1069) + White coating on plastic film (Card) (E1071)	4	1	ND
2. Red paint (E1067, E1069) + Blue paint (E1067, E1069)	4	2	ND
3. Pale blue paint (E1067) + Orange paint (E1067) + Yellow paint (E1069)	4	3	ND
4. Green ink (ZE1070A) + Blue ink (ZE1070A) + Dark blue ink (ZE1070A)	4	4	ND
5. Black ink (ZE1070A) + Red ink (ZE1070A) + Pink ink (ZE1070A)	4	5	ND
6. Yellow ink (ZE1070A) + Orange ink (ZE1070A)	4	6	ND



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Member of the SGS Group (SGS SA)

Test Report

No.: T52210260188TY

Date: NOV 04, 2022

Page 10 of 27

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	20	/	ND	ND	ND	ND	ND	ND	ND	ND
2	1	21	/	ND	ND	ND	ND	ND	ND	ND	ND
3	1	46	/	ND	ND	ND	ND	ND	ND	ND	ND
4	1	47	/	ND	ND	ND	ND	ND	ND	ND	ND
5	1	48	/	ND	ND	ND	ND	ND	ND	ND	ND
6	1	49	/	ND	ND	ND	ND	ND	ND	ND	ND
7	1	50	/	ND	ND	ND	ND	ND	ND	ND	ND
8	2	1	/	ND	ND	ND	ND	ND	ND	ND	ND
9	2	2	/	ND	ND	ND	ND	ND	ND	ND	ND
10	2	3	/	ND	ND	ND	ND	ND	ND	ND	ND
11	2	4	/	ND	ND	ND	ND	ND	ND	ND	ND
12	2	5	/	ND	ND	ND	ND	ND	ND	ND	ND
13	2	6	/	ND	ND	ND	ND	ND	ND	ND	ND
14	2	7	/	ND	ND	ND	ND	ND	ND	ND	ND
15	2	8	/	ND	ND	ND	ND	ND	ND	ND	ND

Specimen Description:

1. Black coating on plastic film (Card) (E1071)
2. White coating on plastic film (Card) (E1071)
3. Red paint (E1067, E1069)
4. Blue paint (E1067, E1069)
5. Pale blue paint (E1067)
6. Orange paint (E1067)
7. Yellow paint (E1069)
8. Green ink (ZE1070A)



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Test Report

No.: T52210260188TY

Date: NOV 04, 2022

Page 11 of 27

Specimen Description:

9. Blue ink (ZE1070A)
10. Dark blue ink (ZE1070A)
11. Black ink (ZE1070A)
12. Red ink (ZE1070A)
13. Pink ink (ZE1070A)
14. Yellow ink (ZE1070A)
15. Orange ink (ZE1070A)

- 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.
 - Result(s) of specimen No.2-No.6 is(are) calculated based on the status as received for Total Lead Content.
 - Result(s) of specimen No.3-No.15 is(are) calculated based on the status as received for Soluble Heavy metal Content.

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

Yellow, green, blue, purple, red, orange coating on plastic sheet (Card) (E1069)



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Member of the SGS Group (SGS SA)

Test Report

No.: T52210260188TY

Date: NOV 04, 2022

Page 12 of 27

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. Off-white plastic sheet (PET) (Tray) (E1067) + Translucent green plastic sheet (PP) (Form board) (E1067, ZE1070A) + Translucent orange plastic sheet (PP) (Form board) (E1067)	3	1	ND
2. Red plastic (PE) (Handle) (E1067) + Cream plastic (Tube) (E1067) + Blue plastic (PE) (Handle) (E1067)	3	2	ND
3. Red sponge (Brush) (E1067) + Blue sponge (Brush) (E1067) + Yellow sponge (Brush) (E1067) w/ Transparent dry glue (Fastener) (E1067)	3	3	ND
4. White plastic (PE) (Lid) (E1067, E1069) + Dark red plastic (Clamp) (E1067, E1069, ZE1070A) + Bright white plastic (PP) (Tray) (E1069, ZE1070A)	3	4	ND
5. Transparent plastic sheet (Bottle) (E1067, E1069) + Brown plastic strip (Brush) (E1069) + Light brown plastic strip (Brush) (E1069)	3	5	ND
6. White plastic sheet (Card) (E1069) + Translucent light green plastic sheet (PP) (Form board) (E1071) + Transparent plastic film (Card) (E1071)	3	6	ND
7. Translucent red plastic sheet (PP) (Form board) (E1068) + White adhesive paper tape w/ red printing (Tape) (E1068, ZE1070A) + Translucent light red plastic sheet (PP) (Form board) (ZE1070A)	3	7	ND
8. Dull red plastic (PP) (Chalk clamp) (E1068) + Yellow plastic (PP) (Chalk clamp) (E1068) + Pale blue plastic (PP) (Chalk clamp) (E1068)	3	8	ND
9. Green plastic (PP) (Pen) (ZE1070A) + Pink plastic (PP) (Pen) (ZE1070A) + Black plastic (PP) (Pen) (ZE1070A)	3	9	ND
10. Light blue plastic (PP) (Pen) (ZE1070A) + Dark blue plastic (PP) (Pen) (ZE1070A) + Red plastic (PP) (Pen) (ZE1070A)	3	10	ND



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Shenzhen Branch Testing Center Hardlines

Member of the SGS Group (SGS SA)

Test Report

No.: T52210260188TY

Date: NOV 04, 2022

Page 13 of 27

Test Item(s)	Lead (Pb)		
MDL (ppm)	10		
Total Limit (ppm)	100		
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
11. Orange plastic (PP) (Pen) (ZE1070A) + Yellow plastic (PP) (Pen) (ZE1070A)	3	11	ND
12. Yellow chalk (E1068) + Blue chalk (E1068) + Light green chalk (E1068)	3	12	ND
13. Pink chalk (E1068) + Green chalk (E1068) + Dull pink chalk (E1068)	3	13	ND
14. White chalk (E1068) + Orange chalk (E1068)	3	14	ND
15. Silvery metal (Big brush) (E1069)	5	1	ND
16. Silvery metal (Small brush) (E1069)	5	2	ND

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



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Test Report

No.: T52210260188TY

Date: NOV 04, 2022

Page 14 of 27

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)							
21	1	24	/	ND	ND	ND	ND	ND	ND	ND	ND
22	1	25	/	ND	ND	ND	ND	ND	ND	ND	ND
23	1	26	/	ND	ND	ND	49	ND	ND	ND	ND
24	1	27	/	ND	ND	ND	ND	ND	ND	ND	ND
25	1	28	/	ND	ND	ND	ND	ND	ND	ND	ND
26	1	29	/	ND	ND	ND	ND	ND	ND	ND	ND
27	1	30	/	ND	ND	ND	ND	ND	ND	ND	ND
28	1	31	/	ND	ND	ND	ND	ND	ND	ND	ND
29	1	32	/	ND	ND	ND	ND	ND	ND	ND	ND
30	1	33	/	ND	ND	ND	ND	ND	ND	ND	ND
31	1	34	/	ND	ND	ND	ND	ND	ND	ND	ND
32	1	35	/	ND	ND	ND	ND	ND	ND	ND	ND
33	1	36	/	ND	5	ND	ND	ND	ND	ND	ND
34	1	37	/	ND	ND	ND	ND	ND	ND	ND	ND
35	1	38	/	ND	ND	ND	ND	ND	ND	ND	ND
36	1	39	/	ND	ND	ND	ND	ND	ND	ND	ND
37	1	40	/	ND	ND	ND	ND	ND	ND	ND	ND
38	1	41	/	ND	ND	ND	ND	ND	ND	ND	ND
39	1	42	/	ND	ND	ND	ND	ND	ND	ND	ND
40	1	43	/	ND	ND	ND	ND	ND	ND	ND	ND
41	1	44	/	ND	ND	ND	ND	ND	ND	ND	ND
42	1	45	/	ND	ND	ND	ND	ND	ND	ND	ND

Specimen Description:

- Off-white plastic sheet (PET) (Tray) (E1067)
- Red plastic (PE) (Handle) (E1067)
- Red sponge (Brush) (E1067)
- Cream plastic (Tube) (E1067)
- Blue plastic (PE) (Handle) (E1067)
- Blue sponge (Brush) (E1067)
- Yellow sponge (Brush) (E1067)
- Translucent green plastic sheet (PP) (Form board) (E1067, ZE1070A)



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Member of the SGS Group (SGS SA)

Test Report

No.: T52210260188TY

Date: NOV 04, 2022

Page 15 of 27

Specimen Description:

9. Translucent orange plastic sheet (PP) (Form board) (E1067)
10. White plastic (PE) (Lid) (E1067, E1069)
11. Transparent plastic sheet (Bottle) (E1067, E1069)
12. Dark red plastic (Clamp) (E1067, E1069, ZE1070A)
13. Bright white plastic (PP) (Tray) (E1069, ZE1070A)
14. White plastic sheet (Card) (E1069)
15. Brown plastic strip (Brush) (E1069)
16. Light brown plastic strip (Brush) (E1069)
17. Translucent light green plastic sheet (PP) (Form board) (E1071)
18. Transparent plastic film (Card) (E1071)
19. Translucent red plastic sheet (PP) (Form board) (E1068)
20. Dull red plastic (PP) (Chalk clamp) (E1068)
21. Yellow plastic (PP) (Chalk clamp) (E1068)
22. Pale blue plastic (PP) (Chalk clamp) (E1068)
23. White adhesive paper tape w/ red printing (Tape) (E1068, ZE1070A)
24. Translucent light red plastic sheet (PP) (Form board) (ZE1070A)
25. Green plastic (PP) (Pen) (ZE1070A)
26. Pink plastic (PP) (Pen) (ZE1070A)
27. Black plastic (PP) (Pen) (ZE1070A)
28. Light blue plastic (PP) (Pen) (ZE1070A)
29. Dark blue plastic (PP) (Pen) (ZE1070A)
30. Red plastic (PP) (Pen) (ZE1070A)
31. Orange plastic (PP) (Pen) (ZE1070A)
32. Yellow plastic (PP) (Pen) (ZE1070A)
33. White felt (Pen) (ZE1070A)
34. White fiber (Nib) (ZE1070A)



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Member of the SGS Group (SGS SA)

Test Report

No.: T52210260188TY

Date: NOV 04, 2022

Page 16 of 27

Specimen Description:

- 35. Yellow chalk (E1068)
- 36. Blue chalk (E1068)
- 37. Light green chalk (E1068)
- 38. Pink chalk (E1068)
- 39. Green chalk (E1068)
- 40. Dull pink chalk (E1068)
- 41. White chalk (E1068)
- 42. Orange chalk (E1068)

- 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
 - 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.

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 8.3.5.3 (2) – Selection of Test Portions

Transparent dry glue (Fastener) (E1067)



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Test Report

No.: T52210260188TY

Date: NOV 04, 2022

Page 17 of 27

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

	<u>No. of sample tested</u>	<u>Sharp point (16 CFR 1500.48)</u>	<u>Sharp edge (16 CFR 1500.49)</u>	<u>Small part (16 CFR 1501)</u>
As received	5	Pass	Pass	N/A
Impact test (16 CFR 1500.53b)	5	Pass	Pass	N/A
Bite test (16 CFR 1500.52c)	0	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)	5	Pass	Pass	N/A
Tension test (16 CFR 1500.53f)	5	Pass	Pass	N/A
Compression test (16 CFR 1500.53g)	5	Pass	Pass	N/A

N/A = Not Applicable

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

<u>Sample</u>	<u>Burning Rate (inch/sec)</u>
E1067 SPONGE PAINTING FUN	
E1069 COLOR MIX PAINTING	
E1071 OODLESOFDOODLESSCRATCHING	0.1*
E1068 CHALKS AND STENCILS ART	
E1070 LETTERS AND NUMBERS TRACING	

*Burning rate has been rounded to the nearest one tenth of an inch per second.

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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Test Report

No.: T52210260188TY

Date: NOV 04, 2022

Page 18 of 27

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. Black coating on plastic film (Card) (E1071) w/ Yellow, green, blue, purple, red, orange coating on plastic sheet (Card) (E1069) + White coating on plastic film (Card) (E1071)	6	1	ND
2. Red paint (E1067, E1069) + Blue paint (E1067, E1069)	6	2	ND
3. Pale blue paint (E1067) + Orange paint (E1067) + Yellow paint (E1069)	6	3	ND
4. Green ink (ZE1070A) + Blue ink (ZE1070A) + Dark blue ink (ZE1070A)	6	4	ND
5. Black ink (ZE1070A) + Red ink (ZE1070A) + Pink ink (ZE1070A)	6	5	ND
6. Yellow ink (ZE1070A) + Orange ink (ZE1070A)	6	6	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.
 - Result(s) of specimen No.2-No.6 is(are) calculated based on the status as received.



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Test Report

No.: T52210260188TY

Date: NOV 04, 2022

Page 19 of 27

As specified in 15 U.S.C. § 2063(a)(5) and Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children's products.

- Tracking label on the packaging: Present
- Tracking label on the product: Not Applicable

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. Black coating on plastic film (Card) (E1071) w/ Yellow, green, blue, purple, red, orange coating on plastic sheet (Card) (E1069) + White coating on plastic film (Card) (E1071)	8	1	ND
2. Red paint (E1067, E1069) + Blue paint (E1067, E1069)	8	2	ND
3. Pale blue paint (E1067) + Orange paint (E1067) + Yellow paint (E1069)	8	3	ND
4. Green ink (ZE1070A) + Blue ink (ZE1070A) + Dark blue ink (ZE1070A)	8	4	ND
5. Black ink (ZE1070A) + Red ink (ZE1070A) + Pink ink (ZE1070A)	8	5	ND
6. Yellow ink (ZE1070A) + Orange ink (ZE1070A)	8	6	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.
 - Result(s) of specimen No.2-No.6 is(are) calculated based on the status as received.



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Test Report

No.: T52210260188TY

Date: NOV 04, 2022

Page 20 of 27

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. Off-white plastic sheet (PET) (Tray) (E1067) + Translucent green plastic sheet (PP) (Form board) (E1067, ZE1070A) + Translucent orange plastic sheet (PP) (Form board) (E1067)	7	1	ND
2. Red plastic (PE) (Handle) (E1067) + Cream plastic (Tube) (E1067) + Blue plastic (PE) (Handle) (E1067)	7	2	ND
3. Red sponge (Brush) (E1067) + Blue sponge (Brush) (E1067) + Yellow sponge (Brush) (E1067) w/ Transparent dry glue (Fastener) (E1067)	7	3	ND
4. White plastic (PE) (Lid) (E1067, E1069) + Dark red plastic (Clamp) (E1067, E1069, ZE1070A) + Bright white plastic (PP) (Tray) (E1069, ZE1070A)	7	4	ND
5. Transparent plastic sheet (Bottle) (E1067, E1069) + Brown plastic strip (Brush) (E1069) + Light brown plastic strip (Brush) (E1069)	7	5	ND
6. White plastic sheet (Card) (E1069) + Translucent light green plastic sheet (PP) (Form board) (E1071) + Transparent plastic film (Card) (E1071)	7	6	ND
7. Translucent red plastic sheet (PP) (Form board) (E1068) + White adhesive paper tape w/ red printing (Tape) (E1068, ZE1070A) + Translucent light red plastic sheet (PP) (Form board) (ZE1070A)	7	7	ND
8. Dull red plastic (PP) (Chalk clamp) (E1068) + Yellow plastic (PP) (Chalk clamp) (E1068) + Pale blue plastic (PP) (Chalk clamp) (E1068)	7	8	ND
9. Green plastic (PP) (Pen) (ZE1070A) + Pink plastic (PP) (Pen) (ZE1070A) + Black plastic (PP) (Pen) (ZE1070A)	7	9	ND



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Test Report

No.: T52210260188TY

Date: NOV 04, 2022

Page 21 of 27

Test Item(s)			Lead (Pb)
Permissible Limit **(ppm)			100
Client's Limit (ppm)			40
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
10. Light blue plastic (PP) (Pen) (ZE1070A) + Dark blue plastic (PP) (Pen) (ZE1070A) + Red plastic (PP) (Pen) (ZE1070A)	7	10	ND
11. Orange plastic (PP) (Pen) (ZE1070A) + Yellow plastic (PP) (Pen) (ZE1070A)	7	11	ND
12. Yellow chalk (E1068) + Blue chalk (E1068) + Light green chalk (E1068)	7	12	ND
13. Pink chalk (E1068) + Green chalk (E1068) + Dull pink chalk (E1068)	7	13	ND
14. White chalk (E1068) + Orange chalk (E1068)	7	14	ND
15. Silvery metal (Big brush) (E1069)	9	1	ND
16. Silvery metal (Small brush) (E1069)	9	2	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
 - 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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Test Report

No.: T52210260188TY

Date: NOV 04, 2022

Page 22 of 27

Public Act 097-0612 of the US State of Illinois, the Lead Poisoning Prevention Act - Lead in Surface Coating Materials of Painted Toy / Children's Jewelry / Childcare Article

Method (coating materials): 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)		
MDL (ppm)	10		
Permissible Limit (ppm)	90		
Warning Limit (ppm)	40 [#]		
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
1. Black coating on plastic film (Card) (E1071) w/ Yellow, green, blue, purple, red, orange coating on plastic sheet (Card) (E1069) + White coating on plastic film (Card) (E1071)	10	1	ND
2. Red paint (E1067, E1069) + Blue paint (E1067, E1069)	10	2	ND
3. Pale blue paint (E1067) + Orange paint (E1067) + Yellow paint (E1069)	10	3	ND
4. Green ink (ZE1070A) + Blue ink (ZE1070A) + Dark blue ink (ZE1070A)	10	4	ND
5. Black ink (ZE1070A) + Red ink (ZE1070A) + Pink ink (ZE1070A)	10	5	ND
6. Yellow ink (ZE1070A) + Orange ink (ZE1070A)	10	6	ND

- Note:
- ppm = parts per million
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit
 - 1% = 10000 mg/kg = 10000 ppm
 - [#] = Effective 1 January, 2010, total Lead content in any surface coating materials of toy, children's jewelry and childcare article that is more than 40ppm but lower than 90ppm should bear the following warning statement on the product or the packaging to indicate the product contains Lead.

WARNING: CONTAINS LEAD. MAYBE HARMFUL IF EATEN OR CHEWED. COMPLIES WITH FEDERAL STANDARDS.

- 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.
- Result(s) of specimen No.2-No.6 is(are) calculated based on the status as received.



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Test Report

No.: T52210260188TY

Date: NOV 04, 2022

Page 23 of 27

US California Proposition 65 – Total Lead Content

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

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)

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

Test Item(s)	Alias No.	Tracing No.	Lead (Pb) Result(s) (ppm)
Specimen Description			
1. Off-white plastic sheet (PET) (Tray) (E1067) + Translucent green plastic sheet (PP) (Form board) (E1067, ZE1070A) + Translucent orange plastic sheet (PP) (Form board) (E1067)	11	1	ND
2. Red plastic (PE) (Handle) (E1067) + Cream plastic (Tube) (E1067) + Blue plastic (PE) (Handle) (E1067)	11	2	ND
3. Red sponge (Brush) (E1067) + Blue sponge (Brush) (E1067) + Yellow sponge (Brush) (E1067) w/ Transparent dry glue (Fastener) (E1067)	11	3	ND
4. White plastic (PE) (Lid) (E1067, E1069) + Dark red plastic (Clamp) (E1067, E1069, ZE1070A) + Bright white plastic (PP) (Tray) (E1069, ZE1070A)	11	4	ND
5. Transparent plastic sheet (Bottle) (E1067, E1069) + Brown plastic strip (Brush) (E1069) + Light brown plastic strip (Brush) (E1069)	11	5	ND
6. White plastic sheet (Card) (E1069) + Translucent light green plastic sheet (PP) (Form board) (E1071) + Transparent plastic film (Card) (E1071)	11	6	ND
7. Translucent red plastic sheet (PP) (Form board) (E1068) + White adhesive paper tape w/ red printing (Tape) (E1068, ZE1070A) + Translucent light red plastic sheet (PP) (Form board) (ZE1070A)	11	7	ND
8. Dull red plastic (PP) (Chalk clamp) (E1068) + Yellow plastic (PP) (Chalk clamp) (E1068) + Pale blue plastic (PP) (Chalk clamp) (E1068)	11	8	ND
9. Green plastic (PP) (Pen) (ZE1070A) + Pink plastic (PP) (Pen) (ZE1070A) + Black plastic (PP) (Pen) (ZE1070A)	11	9	ND
10. Light blue plastic (PP) (Pen) (ZE1070A) + Dark blue plastic (PP) (Pen) (ZE1070A) + Red plastic (PP) (Pen) (ZE1070A)	11	10	ND
11. Orange plastic (PP) (Pen) (ZE1070A) + Yellow plastic (PP) (Pen) (ZE1070A)	11	11	ND



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Test Report

No.: T52210260188TY

Date: NOV 04, 2022

Page 24 of 27

Test Item(s)	Alias No.	Tracing No.	Lead (Pb) Result(s) (ppm)
Specimen Description			
12. Yellow chalk (E1068) + Blue chalk (E1068) + Light green chalk (E1068)	11	12	ND
13. Pink chalk (E1068) + Green chalk (E1068) + Dull pink chalk (E1068)	11	13	ND
14. White chalk (E1068) + Orange chalk (E1068)	11	14	ND
15. Black coating on plastic film (Card) (E1071) w/ Yellow, green, blue, purple, red, orange coating on plastic sheet (Card) (E1069) + White coating on plastic film (Card) (E1071)	12	1	ND
16. Red paint (E1067, E1069) + Blue paint (E1067, E1069)	12	2	ND
17. Pale blue paint (E1067) + Orange paint (E1067) + Yellow paint (E1069)	12	3	ND
18. Green ink (ZE1070A) + Blue ink (ZE1070A) + Dark blue ink (ZE1070A)	12	4	ND
19. Black ink (ZE1070A) + Red ink (ZE1070A) + Pink ink (ZE1070A)	12	5	ND
20. Yellow ink (ZE1070A) + Orange ink (ZE1070A)	12	6	ND
21. Silvery metal (Big brush) (E1069)	13	1	ND
22. Silvery metal (Small brush) (E1069)	13	2	ND

- Note:
- ppm = parts per million
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit =10 ppm
 - 1% = 10000mg/kg=10000ppm
 - 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.
 - Result(s) of specimen No.16-No.20 is(are) calculated based on the status as received.

Remark: Summary of permissible limit(s) of Lead requirement otherwise warning label required.

Requirement(s)	Permissible Limit of Lead (ppm)	Effective Date
California Proposition 65 (ACSC Case No. RG-07-356892)	90	Current
Surface Coating	100	Current
Accessible substrate	100	Current
California Proposition 65 (County of Los Angeles Case No. BC479596)	100	Current



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Test Report

No.: T52210260188TY

Date: NOV 04, 2022

Page 25 of 27

Remark:

1. Since the data and / or information above division line of front page is provided by the applicant, the relevant results or conclusions of this report are only made for these data and / or information, SGS shall not be responsible for the authenticity and integrity of such data and information and the validity of the results and / or conclusions arising therefrom. Testing results only apply to the sample as received.
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 $[T_L - U_{95}, T_L + U_{95}]$



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Sample Picture (As received)

Pic.1



Pic.2



Pic.3



Pic.4



Sample Picture (As received)

Pic.5



SGS authenticate the photo on original report only

*** End of Report ***

