



中国认可
国际互认
检测
TESTING
CNAS L2929

Test Report

No.: T52210251577TY

Date: MAY 10, 2022

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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:

- E1624 JOBS ROUNDABOUT PUZZLE
- E1625 SOLAR SYSTEM PUZZLE
- E1626 2-IN-1 WORLD TOUR PUZZLE AND GAME

Item No. : E1624, E1625, E1626
ASIN NO. : B07K8KRGZ3,B07M8JRB5G,B07KNQ32LF
Country of Destination : GLOBAL
Client Reference Information : E1624A,E1625A,E1625B,E1626A
Labeled Age Grading : 4Y+ / 5Y+
Requested Age Grading : 4Y+ / 5Y+

Age Group Assessed by SGS As Per Age : OVER 4 YEARS FOR ITEM NO. E1624, OVER 5 YEARS
Guideline FOR OTHERS
Age Group Applied in Testing : OVER 4 YEARS FOR ITEM NO. E1624, OVER 5 YEARS
FOR OTHERS
Sample Receiving Date : MAR 24, 2022
Further Information Date : APR 12, 2022
Testing Period : MAR 24, 2022 TO MAY 10, 2022



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Shenzhen Branch Testing Center Hardlines

Room 101-501, Plant 4 & Room 101, Plant 2 & Room 101, Plant 3 & Room 301-501, Plant 3, Jianghao (Bantian) Industrial Plant Area, No.430, Jihua Road, Bantian Community, Bantian Street, Longgang District, Shenzhen, Guangdong, China 518129 www.sgs.com.cn
中国·广东·深圳市龙岗区坂田街道坂田社区吉华路430号江灏(坂田)工业厂区厂房4号 101-901、2号101、3号301-501 邮编: 518129 t:(86-755) 25328888 sgs.china@sgs.com

Member of the SGS Group (SGS SA)

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 1500.19 – Misbranded toys and other articles intended for use by children *Not misbranded toys or articles intended for use by children	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	--
	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

***** 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



Huang Yao, Lucy
 Section Head
 CNAS Approved
 Signatories

Qu Ping, Kiky
 Dept. Manager
 CNAS Approved
 Signatories

Xiao Yongbo, Spring
 Supervisor
 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:

<u>Clause</u>	<u>Description</u>	<u>Result</u>
4	Safety Requirements	
4.1	Material Quality **	<u>Pass</u>
4.2	Flammability Test	<u>Pass</u> <u>(See Result Page)</u>
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> <u>(See Result Page)</u>
4.3.5.2	Heavy Metal in Substrate Materials	<u>Pass</u> <u>(See Result Page)</u>
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>Pass*</u>
*Retest samples were submitted on Apr 12, 2022		
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>Pass</u>



<u>Clause</u>	<u>Description</u>	<u>Result</u>
4.12	Plastic Film	<u>Pass</u>
4.13.1	Folding Mechanisms	<u>N/A</u>
4.13.2	Hinge-Line Clearance	<u>N/A</u>
4.14	Cords, Straps and Elastic	<u>N/A</u>
4.15	Stability and Over-Load Requirements	<u>N/A</u>
4.16	Confined Spaces	<u>N/A</u>
4.17	Wheels, Tires, and Axles	<u>N/A</u>
4.18	Holes, Clearance & Accessibility of Mechanisms	<u>N/A</u>
4.19	Simulated Protective Devices	<u>N/A</u>
4.20	Pacifiers	<u>N/A</u>
4.21	Projectile Toys	<u>N/A</u>
4.22	Teethers and Teething Toys	<u>N/A</u>
4.23	Rattles	<u>N/A</u>
4.24	Squeeze Toys	<u>N/A</u>
4.25	Battery-Operated Toys (Non-rechargeable battery)	<u>Pass</u>
4.26	Toys Intended to be Attached to a Crib or Playpen	<u>N/A</u>
4.27	Stuffed and Beanbag-Type Toys	<u>N/A</u>
4.28	Stroller and Carriage Toys	<u>N/A</u>
4.29	Art Materials	<u>N/A</u>
4.30	Toy Gun Marking	<u>N/A</u>
4.31	Balloons	<u>N/A</u>
4.32	Certain Toys and Nearly Spherical Ends	<u>N/A</u>
4.33	Marbles	<u>N/A</u>
4.34	Balls	<u>N/A</u>
4.35	Pompoms	<u>N/A</u>
4.36	Hemispheric-Shaped Objects	<u>N/A</u>
4.37	Yo Yo Elastic Tether Toys	<u>N/A</u>
4.38	Magnets	<u>N/A</u>
4.39	Jaw Entrapment in Handles and Steering Wheels	<u>N/A</u>
4.40	Expanding Materials	<u>N/A</u>
4.41	Toy Chest	<u>N/A</u>
5	Safety Labeling Requirements	
5.2	Age Grading Labeling	<u>Pass</u>
5.3	Safety Labeling Requirements	<u>Pass*</u>

*Retest samples were submitted on Apr 12, 2022



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<u>Clause</u>	<u>Description</u>	<u>Result</u>
5.4	Aquatic Toys	<u>N/A</u>
5.5	Crib & Playpen Toys	<u>N/A</u>
5.6	Mobile	<u>N/A</u>
5.7	Stroller and Carriage Toys	<u>N/A</u>
5.8	Toys Intended to be Assembled by an Adult	<u>N/A</u>
5.9	Simulated Protective Devices	<u>N/A</u>
5.10	Toys with Functional Sharp Edges and Sharp Points	<u>N/A</u>
5.11	Small Objects, Small Balls, Marbles, and Balloons	<u>Pass*</u>
	*Retest samples were submitted on Apr 12, 2022	
5.12	Toy Caps	<u>N/A</u>
5.13	Art Materials	<u>N/A</u>
5.14	Electric Toys	<u>N/A</u>
5.15	Battery-Operated Toys	<u>Pass*</u>
	*Retest samples were submitted on Apr 08, 2022	
5.16	Promotional Materials	<u>Pass</u>
5.17	Magnets	<u>N/A</u>
6	Instructional Literature	
6.2	Crib & Playpen Toys	<u>N/A</u>
6.3	Mobiles	<u>N/A</u>
6.4	Toys Intended to be Assembled by an Adult	<u>N/A</u>
6.5	Battery-Operated Toys	<u>N/A</u>
6.6	Battery Powered Ride-on Toys	<u>N/A</u>
6.7	Toys in Contact with Food	<u>N/A</u>
6.8	Toy Chests	<u>N/A</u>
7	Producer's Markings	
7.1	Producer's Markings	<u>Pass</u>
7.2	Battery-Powered Ride-on Toys	<u>N/A</u>
7.3	Toy Chests	<u>N/A</u>
8.5	Normal Use Testing	<u>Pass</u>
8.7	Impact Test	<u>Pass</u>
8.8	Torque Test	<u>Pass</u>
8.9	Tension Test	<u>Pass</u>
8.10	Compression Test	<u>N/A</u>
8.12	Flexure Test	<u>N/A</u>
8.16	Tension Test for Pompoms	<u>N/A</u>

N/A = Not Applicable



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Result Page:

Flammability Test (Clause 4.2)

Flammability Test on Solid

Sample

E1624 JOBS ROUNDABOUT PUZZLE

E1625 SOLAR SYSTEM PUZZLE

E1626 2-IN-1 WORLD TOUR PUZZLE AND GAME

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. Red coating on wood (Body) + Orange coating on wood (Body) + Purple coating on wood (Body)	3	1	17
2. Blue coating on wood (Body) + Transparent lacquer w/ multi-color coating on wood (Pattern) + Bright brown cw/ pink oating on wood (Body)	3	2	ND
3. Cream-yellow coating on wood (Body) + Cyan coating on wood (Body) + Light cyan coating on wood (Body)	3	3	20
4. Multi-color coating on paper (Puzzle, instruction) w/ Black, dark brown coating on wood (Lettering) w/ Dark red coating on wood (Dice)	3	4	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	1	89.3	ND	ND	ND	ND	ND	ND	ND	ND
2	1	2	/	ND	ND	ND	ND	ND	ND	ND	ND
3	1	3	39.0	ND	ND	ND	ND	ND	ND	ND	ND
4	1	4	69.9	ND	ND	ND	ND	ND	ND	ND	ND
5	1	5	/	ND	ND	ND	ND	ND	ND	ND	ND
6	1	6	/	ND	ND	ND	ND	ND	ND	ND	ND
7	1	7	99.8	ND	ND	ND	ND	ND	ND	ND	ND
8	1	8	/	ND	ND	ND	ND	ND	ND	ND	ND
9	1	9	/	ND	ND	ND	ND	ND	ND	ND	ND
10	1	19	/	ND	ND	ND	ND	ND	ND	ND	ND

Specimen Description:

1. Red coating on wood (Body)
2. Orange coating on wood (Body)
3. Purple coating on wood (Body)
4. Blue coating on wood (Body)
5. Transparent lacquer w/ multi-color coating on wood (Pattern)
6. Cream-yellow coating on wood (Body)
7. Bright brown w/ pink coating on wood (Body)
8. Cyan coating on wood (Body)
9. Light cyan coating on wood (Body)
10. Multi-color coating on paper (Puzzle, instruction)



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Test Report

No.: T52210251577TY

Date: MAY 10, 2022

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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.
 - For Soluble Heavy Metal Content
Result(s) of specimen No.1-No.3 is(are) extracted from report No.T52110322666TY
Result(s) of specimen No.4 is(are) extracted from report No.T52110271710TY

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

Dark red coating on wood (Dice)

Black, dark brown coating on wood (Lettering)



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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. Light apricot plastic (Wafer) + Yellow plastic (Body) + Dark yellow plastic (Body) w/ Black plastic (Switch)	2	1	ND
2. Dark brown hardboard (Body) + Light brown hardboard (Body) + Light cream plywood (Body)	2	2	ND
3. Silvery metal small screw (Battery cover)	4	1	ND
4. Silvery metal screw (Body)	4	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	10	/	ND	ND	ND	ND	ND
2	1	11	/	ND	ND	ND	ND	ND
3	1	12	/	ND	ND	ND	ND	ND
4	1	13	40.9	ND	ND	ND	ND	ND
5	1	14	/	ND	ND	ND	14	ND
6	1	17	/	ND	ND	ND	ND	ND
7	1	18	/	ND	ND	ND	12	ND



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Specimen Description:

1. Light apricot plastic (Wafer)
2. Yellow plastic (Body)
3. Dark yellow plastic (Body)
4. Black plastic (Switch)
5. Dark brown hardboard (Body)
6. Light brown hardboard (Body)
7. Light cream plywood (Body)

- 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.



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	3	Pass	Pass	N/A
Impact test (16 CFR 1500.53b)	3	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)	3	Pass	Pass	N/A
Tension test (16 CFR 1500.53f)	3	Pass	Pass	N/A
Compression test (16 CFR 1500.53g)	0	N/A	N/A	N/A

N/A = Not Applicable

US CPSC 16 CFR 1500.19 – MISBRANDED TOYS AND OTHER ARTICLES INTENDED FOR USE BY CHILDREN*

AS SPECIFIED IN US CPSC 16 CFR 1500.19 – MISBRANDED TOYS AND OTHER ARTICLES INTENDED FOR USE BY CHILDREN

Appropriate warning according to 16 CFR 1500.19 was found on the principle display panel of the product's packaging.

*Retest samples were submitted on Apr 12, 2022



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Shenzhen Branch Testing Center Hardlines

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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	Burning Rate (inch/sec)
E1624 JOBS ROUNDABOUT PUZZLE	DNI
E1625 SOLAR SYSTEM PUZZLE	
E1626 2-IN-1 WORLD TOUR PUZZLE AND GAME	

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. Red coating on wood (Body) + Orange coating on wood (Body) + Purple coating on wood (Body)	5	1	17
2. Blue coating on wood (Body) + Transparent lacquer w/ multi-color coating on wood (Pattern) + Bright brown w/ pink coating on wood (Body)	5	2	ND
3. Cream-yellow coating on wood (Body) + Cyan coating on wood (Body) + Light cyan coating on wood (Body)	5	3	20
4. Multi-color coating on paper (Puzzle, instruction) w/ Black, dark brown coating on wood (Lettering) w/ Dark red coating on wood (Dice)	5	4	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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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
P2122402792NBCN 11/2021
P2122402169NBCN 08/2021
P2122402708NBCN 10/2021
- 3) Date: P2122402792NBCN 11/2021
P2122402169NBCN 08/2021
P2122402708NBCN 10/2021
- 4) Cohort information: P2122402792NBCN 11/2021
P2122402169NBCN 08/2021
P2122402708NBCN 10/2021

- Tracking label found on the product:

- 1) Name: Hape international AG
- 2) Location: P2122402792NBCN 11/2021
P2122402169NBCN 08/2021
P2122402708NBCN 10/2021
- 3) Date: P2122402792NBCN 11/2021
P2122402169NBCN 08/2021
P2122402708NBCN 10/2021
- 4) Cohort information: P2122402792NBCN 11/2021
P2122402169NBCN 08/2021
P2122402708NBCN 10/2021

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.



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. Red coating on wood (Body) + Orange coating on wood (Body) + Purple coating on wood (Body)	7	1	17
2. Blue coating on wood (Body) + Transparent lacquer w/ multi-color coating on wood (Pattern) + Bright brown w/ pink coating on wood (Body)	7	2	ND
3. Cream-yellow coating on wood (Body) + Cyan coating on wood (Body) + Light cyan coating on wood (Body)	7	3	20
4. Multi-color coating on paper (Puzzle, instruction) w/ Black, dark brown coating on wood (Lettering) w/ Dark red coating on wood (Dice)	7	4	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. Light apricot plastic (Wafer) + Yellow plastic (Body) + Dark yellow plastic (Body) w/ Black plastic (Switch)	6	1	ND
2. Dark brown hardboard (Body) + Light brown hardboard (Body) + Light cream plywood (Body)	6	2	ND
3. Silvery metal small screw (Battery cover)	8	1	ND
4. Silvery metal screw (Body)	8	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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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 $T_L + U_{95}$

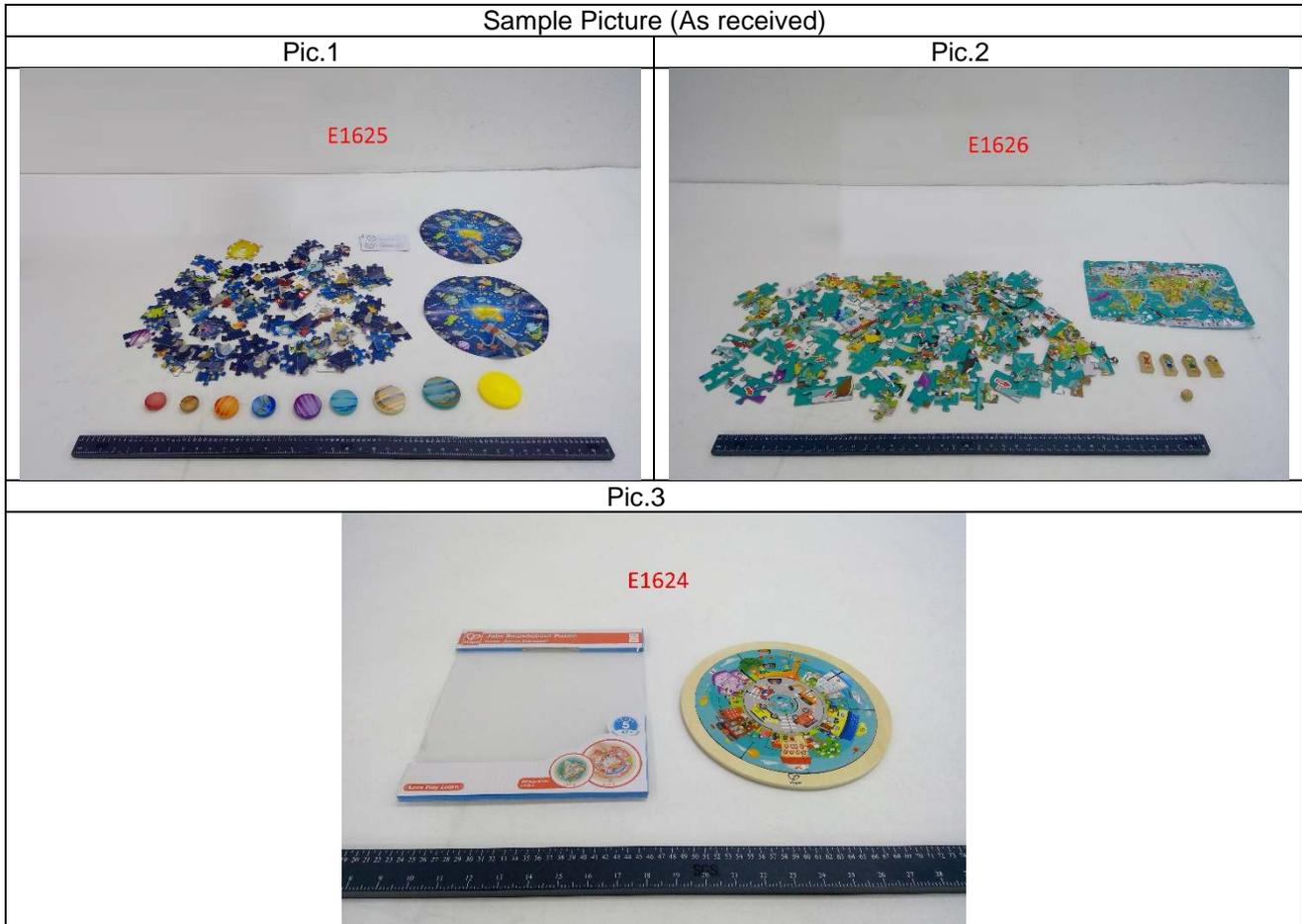
Fail - when the measurement result is below $T_L - U_{95}$

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



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