



中国认可
国际互认
检测
TESTING
CNAS L2929

Test Report

No.: T52210271825TY

Date: JUN 13, 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:

E3702 RECORD LISTEN & LIGHT RAILWAY STATION
E3709 LIFTING BRIDGE
E3704 BIG ENGINE SHED
E3710 EXTENDED DOUBLE SUSPENSION BRIDGE
E3756 MINING LOADER SET
E3730 BUSY CITY RAIL SET
E3725 GRAND CITY STATION
E3728 INTERCITY TRAIN
E3729 PASSENGER TRAIN SET
E3732 CROSSING & CRANE SET
E3766 70PIECE RAILWAY TRAIN

Item No. : E3702, E3709, E3704, E3710, E3756, E3730,
E3725, E3728, E3729, E3732, E3766
Client reference information : E3702B,E3709B,E3704A,E3710B,E3756A,E3730A,
E3725A,E3728A,E3729A,E3732A,E3766B
Asin No. : B01FH042P6,B01FH04738,B07B4YWXB9,
B07B4YLQMS,B07B4ZB32B,B07B4Z8HQB,
B07B51NVZV
Country of Destination : GLOBAL
Labeled Age Grading : 3+ / 3Y+
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 : MAY 25, 2022
Further Information Date : JUN 13, 2022
Testing Period : MAY 25, 2022 TO JUN 13, 2022



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Test Requested		Conclusion
1.	For compliance with the test requirement of ASTM F963-17 Standard Consumer Safety Specification on Toy Safety. (Except tool)	--
	ASTM F963-17 Standard Consumer Safety Specification for Toy Safety	PASS
2.	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 (Except tool)	--
	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 paint/similar surface coating material	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



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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	Pass
4.6.1	Small Objects	N/A
4.6.2	Mouth-Actuated Toys	N/A
4.6.3	Labelling Requirements	Pass*
*Retest samples were submitted on JUN 10, 2022.		
4.7	Accessible Edges	Pass
4.8	Projections	Pass
4.9	Accessible Points	Pass
4.10	Wires or Rods	N/A



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Clause	Description	Result
4.11	Nails and Fasteners	Pass
4.12	Plastic Film	Pass*
	*Retest samples were submitted on JUN 10, 2022.	
4.13.1	Folding Mechanisms	N/A
4.13.2	Hinge-Line Clearance	N/A
	(Remark : Not applicable because of the weight of movable part link with hinge is less than 0.5lb.)	
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	Pass
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 (Non-rechargeable battery)	Pass
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	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	Pass
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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Clause	Description	Result
5	Safety Labeling Requirements	
5.2	Age Grading Labeling	Pass
5.3	Safety Labeling Requirements	Pass*
	*Retest samples were submitted on JUN 10, 2022.	
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	Pass*
	*Retest samples were submitted on JUN 10, 2022.	
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	Pass
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



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Clause	Description	Result
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

Result Page:

Flammability Test (Clause 4.2)

Flammability Test on Solid

Sample	Burning Rate (inch/sec)
E3702 RECORD LISTEN & LIGHT RAILWAY STATION	0.03
E3709 LIFTING BRIDGE	
E3704 BIG ENGINE SHED	
E3710 EXTENDED DOUBLE SUSPENSION BRIDGE	
E3756 MINING LOADER SET	
E3730 BUSY CITY RAIL SET	
E3725 GRAND CITY STATION	
E3728 INTERCITY TRAIN	
E3729 PASSENGER TRAIN SET	
E3732 CROSSING & CRANE SET	
E3766 70PIECE RAILWAY TRAIN	

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 / 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. Dull dark green coating on wood (Tree) w/ Silvery coating on plastic (Train, pattern) w/ Bright dark red coating on plastic (Lifting) w/ Bright orange coating on plastic (Lifting) w/ Light blue coating on plastic (Ticket) w/ Purple coating on plastic (Ticket) w/ Bright black coating on plastic (Lifting)	5	1	ND
2. Transparent lacquer coating on wood (Lift, pile, board, tree, accessory) w/ Light grey coating on wood (Pile) w/ Grass green coating on wood (Tree) w/ Bright grass green coating on wood (Tree)	5	2	ND
3. Blue coating on plastic (Train, signboard) w/ White coating on plastic (Signboard, clock, train, figure) w/ Matt red coating on plastic (Signboard, lifting) w/ Light grey coating on plastic (Track, figure) w/ Pale grey coating on plastic (Track, repair station, wicket) w/ Dark grey-green coating on plastic (Train)	5	3	ND
4. Black coating on wood (Truck, train, pile, lift, lettering) w/ Dull blue coating on wood (Train) + Grey coating on wood (Lift, pile, block station) + Transparent lacquer w/ green coating on wood (Block) w/ Bright green coating on wood (Block)	5	4	ND
5. Cream w/ light brown, white coating on wood (Board) w/ Red w/ pink coating on wood (Pile, train, block, station) w/ Cream coating on plastic (Figure) w/ Dull pink, dull orange, dull silvery coating on plastic (Figure) w/ Dull cyan coating on plastic (Figure)	5	5	ND
6. Dark cream coating on wood (Edge) w/ Grey-black coating on soft plastic (Figure) w/ Dull blue coating on soft plastic (Figure) w/ Bright yellow coating on soft plastic (Figure) w/ Bright orange coating on soft plastic (Figure) w/ Pink coating on soft plastic (Figure)	5	6	ND
7. Light lake blue coating on wood (Block) w/ Yellow coating on plastic (Train) w/ Black coating on plastic (Train, figure, clock, truck, signboard, repair station, wicket) w/ Pale blue coating on plastic (Truck, figure, lifting) w/ Cream-yellow coating on plastic (Figure) w/ Dull brown coating on soft plastic (Figure)	5	7	ND



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Test Item(s)			Lead (Pb)
MDL (ppm)			10
Total Limit (ppm)			90
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
8. Dull grey coating on wood (Bridge) w/ Chocolate coating on wood (Logo) w/ Bright light green coating on plastic (Railing, road gate, ticket, signboard) w/ Dull dark grey coating on wood (Train)	5	8	ND
9. Dark grey w/ white coating on wood (Board) w/ Multi-color coating on wood (Board) w/ Grey-black coating on wood (Board)	5	9	ND
10. Transparent lacquer w/ blue coating on wood (Train) w/ Bright yellow coating on plastic (Repair station) w/ Dark grey coating on plastic (Repair station) w/ Multi-color coating on plastic sheet (Ticket) w/ Light red coating on plastic (Ticket) w/ Orange coating on plastic (Ticket)	5	10	ND
11. Transparent lacquer w/ light blue coating on wood (Train, block) w/ White coating on wood (Pile, truck, car, pattern, train) w/ Dull orange coating on wood (Lift, train, block) w/ Bright brown coating on plastic (Figure) w/ Dull yellow coating on plastic (Truck) w/ Bright blue coating on wood (Block)	5	11	ND
12. Yellow coating on wood (Block) w/ Dark cyan coating on wood (Train) + Dark green coating on wood (Train) w/ Pale yellow coating on wood (Train)	5	12	ND
13. Light yellow coating on wood (Car, lifting) w/ Dull cyan, blue-black coating on wood (Car) w/ Black coating on metal (Train)	5	13	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	8	24	/	ND	ND	ND	ND	ND	ND	ND	ND
2	8	25	27.0	ND	ND	ND	ND	ND	ND	ND	ND
3	8	27	14.3	ND	ND	ND	ND	ND	ND	ND	ND
4	8	28	/	ND	ND	ND	ND	ND	ND	ND	ND
5	8	29	/	ND	ND	ND	ND	ND	ND	ND	ND
6	8	31	14.1	ND	ND	ND	ND	ND	ND	ND	ND
7	8	33	/	ND	ND	ND	ND	ND	ND	ND	ND
8	8	34	/	ND	ND	ND	ND	ND	ND	ND	ND
9	8	35	/	ND	ND	ND	ND	ND	ND	ND	ND
10	8	51	77.7	ND	ND	ND	ND	ND	ND	ND	ND
11	8	52	/	ND	ND	ND	ND	ND	ND	ND	ND
12	8	53	/	ND	ND	ND	ND	ND	ND	ND	ND
13	8	54	38.0	ND	ND	ND	ND	ND	ND	ND	ND
14	8	55	26.3	ND	ND	ND	ND	ND	ND	ND	ND
15	8	59	79.0	ND	ND	ND	ND	ND	ND	ND	ND
16	8	128	99.9	ND	ND	ND	ND	ND	ND	ND	ND
17	8	68	64.6	ND	ND	ND	10	ND	ND	ND	ND
18	8	69	/	ND	ND	ND	ND	ND	ND	ND	ND
19	8	72	/	ND	ND	ND	10	ND	ND	ND	ND
20	8	73	77.5	ND	ND	ND	12	ND	ND	ND	ND
21	8	74	42.7	ND	ND	ND	ND	ND	ND	ND	ND
22	8	75	22.2	ND	ND	ND	ND	ND	ND	ND	ND
23	8	79	/	ND	ND	ND	ND	ND	ND	ND	ND
24	8	114	/	ND	ND	ND	ND	ND	ND	ND	ND
25	8	119	/	ND	ND	ND	ND	ND	ND	ND	ND
26	8	124	/	ND	ND	ND	ND	ND	ND	ND	ND
27	8	127	/	ND	ND	ND	ND	ND	ND	ND	ND



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Specimen Description:

1. Dull dark green coating on wood (Tree)
2. Blue coating on plastic (Train, signboard)
3. Matt red coating on plastic (Signboard, lifting)
4. Black coating on wood (Truck, train, pile, lift, lettering)
5. Grey coating on wood (Lift, pile, block station)
6. Light grey coating on plastic (Track, figure)
7. Cream w/ light brown, white coating on wood (Board)
8. Dark cream coating on wood (Edge)
9. Light lake blue coating on wood (Block)
10. Dull dark grey coating on wood (Train)
11. Dark grey w/ white coating on wood (Board)
12. Multi-color coating on wood (Board)
13. Grey-black coating on wood (Board)
14. Grass green coating on wood (Tree)
15. Dull grey coating on wood (Bridge)
16. Transparent lacquer w/ light blue coating on wood (Train, block)
17. Dark cyan coating on wood (Train)
18. Yellow coating on wood (Block)
19. Silvery coating on plastic (Train, pattern)
20. Dark green coating on wood (Train)
21. Bright dark red coating on plastic (Lifting)
22. Bright orange coating on plastic (Lifting)
23. Red w/ pink coating on wood (Pile, train, block, station)
24. Transparent lacquer w/ green coating on wood (Block)
25. Transparent lacquer coating on wood (Lift, pile, board, tree, accessory)
26. Light yellow coating on wood (Car, lifting)
27. Transparent lacquer w/ blue coating on wood (Train)



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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)
 - For Soluble Heavy Metal Content:
Result(s) of specimen No.24 & No.25 is(are) extracted from report No. T52210261844TY
Result(s) of specimen No.26 is(are) extracted from report No. T52210262151TY
Result(s) of specimen No.16 & No.27 is(are) extracted from report No. T52110332135TY

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

White coating on plastic (Signboard, clock, train, figure)
Pale grey coating on plastic (Track, repair station, wicket)
Black coating on metal (Train)
Grey-black coating on soft plastic (Figure)
Dull blue coating on soft plastic (Figure)
Bright yellow coating on soft plastic (Figure)
Yellow coating on plastic (Train)
Black coating on plastic (Train, figure, clock, truck, signboard, repair station, wicket)
Dark grey-green coating on plastic (Train)
Pale blue coating on plastic (Truck, figure, lifting)
Cream-yellow coating on plastic (Figure)
Dull brown coating on soft plastic (Figure)
White coating on wood (Pile, truck, car, pattern, train)
Dull orange coating on wood (Lift, train, block)
Dull blue coating on wood (Train)
Cream coating on plastic (Figure)
Dull pink, dull orange, dull silvery coating on plastic (Figure)
Bright orange coating on soft plastic (Figure)
Pink coating on soft plastic (Figure)
Light red coating on plastic (Ticket)
Orange coating on plastic (Ticket)
Light blue coating on plastic (Ticket)
Purple coating on plastic (Ticket)
Multi-color coating on plastic sheet (Ticket)
Dull cyan, blue-black coating on wood (Car)
Bright yellow coating on plastic (Repair station)
Dark grey coating on plastic (Repair station)



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Bright grass green coating on wood (Tree)
 Bright brown coating on plastic (Figure)
 Bright blue coating on wood (Block)
 Bright green coating on wood (Block)
 Pale yellow coating on wood (Train)
 Bright black coating on plastic (Lifting)
 Dull cyan coating on plastic (Figure)
 Chocolate coating on wood (Logo)
 Dull yellow coating on plastic (Truck)
 Bright light green coating on plastic (Railing, road gate, ticket, signboard)
 Light grey coating on wood (Pile)

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

Method: With reference to CPSC-CH-E1002-08.3 / CPSC-CH-E1001-08.3 / ASTM F963-17 Clause 8.3 / CPSC-CH-E1004-11

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

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. Iridescent metal nut	1	1	ND
2. Silvery metal cap	1	2	ND
3. Silvery metal cap w/ logo	1	3	ND
4. Bright silvery metal big rivet w/ logo	1	4	ND
5. Bright silvery metal small rivet w/ logo	1	5	ND
6. Silvery metal big rivet	1	6	ND
7. Silvery metal small rivet	1	7	ND
8. Bright silvery small cap nail	1	8	ND
9. Silvery metal chassis	1	9	ND
10. Black metal triangular screw	1	10	ND
11. Bright silvery-blue metal screw	1	11	ND
12. Iridescent bright silvery metal part	1	12	ND
13. Silvery-blue metal bolt	1	13	ND
14. Bright silvery-blue metal small screw	1	14	ND
15. Silvery metal small screw (Battery cover)	1	15	ND
16. Silvery metal flat big screw	1	16	ND



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Test Item(s)	Lead (Pb)		
MDL (ppm)	10		
Total Limit (ppm)	100		
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
17. Silvery metal cap screw	1	17	ND
18. Silvery metal flat small screw	1	18	ND
19. Shiny silvery metal big head screw	1	19	ND
20. Silvery metal big screw	1	20	ND
21. Bright silvery-blue metal big screw	1	21	ND
22. Black metal spring	1	22	ND
23. Dull silvery metal piece	1	23	ND
24. Bright silvery metal screw (Battery cover)	1	24	21
25. Matt light grey plastic (PP) (Side board) + Matt dark grey plastic (HDPE) (Pier) + Light grey plastic (PS) (Track, accessory)	3	1	ND
26. Red plastic (PE) (Railing, bridge) + Dull grey plastic (Crane) + Black plastic (Crane, connector)	3	2	ND
27. Matt-black plastic (PP) (Wheel, knob) + Black plastic (Holder) + Bright grey plastic (ABS) (Track, roof, button, repair station)	3	3	ND
28. Dark grey plastic (ABS) (Truck) + Bright white plastic (ABS) (Train) + Transparent black plastic (Train)	3	4	ND
29. Dull light grey plastic (ABS) (Train) + Light grey plastic (ABS) (Train, wheel, signboard) + Brown plastic (HIPS) (Ladder)	3	5	ND
30. Dull dark grey plastic (Accessory) + Blue plastic (ABS) (Train) + Bright red plastic (PP) (Roof, lift, handle, knob, guardrail)	3	6	ND
31. Dull blue plastic (ABS) (Figure) + Dull blue plastic (PC) (Figure) + Vivid red plastic (ABS) (Roof, train)	3	7	ND
32. Black soft plastic (Wheel) + Transparent plastic film (Board) w/ Transparent plastic sheet (Ticket)	3	8	ND
33. White plastic (ABS) (Roof, ladder, ticket, signboard) + Transparent plastic (Shade) + Bright red plastic (ABS) (Roof, elevator)	3	9	ND
34. Translucent plastic (LED) + Transparent plastic (LED)	3	10	ND
35. Matt red plastic (Knob) + Bright dark grey plastic (Connector) + Snow-white plastic (ABS) (Wicket, railing)	3	11	ND
36. Grey-green plastic (ABS) (Track) + Pale pink plastic (ABS) (Figure) + Pale pink plastic (PC) (Figure)	3	12	ND
37. Cyan plastic (ABS) (Figure) + Rose-red plastic (Hand bag) + Grey plastic (PA) (Holder)	3	13	ND
38. Dull apricot plastic (Connector) + Matt-grey plastic (Station) + Dull red plastic (Figure)	3	14	ND
39. Dark grey-green plastic (ABS) (Figure) + Matt light grey plastic (ABS) (Figure) + Grey-white plastic (ABS) (Figure)	3	15	ND



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Test Item(s)			Lead (Pb)
MDL (ppm)			10
Total Limit (ppm)			100
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
40. Yellow plastic (PC) (Figure) + Cream plastic (Connector) + Grey plastic (PP) (Station)	3	16	ND
41. Pale blue plastic (ABS) (Figure) + Pale blue plastic (PC) (Figure) + Dull white plastic (Nut)	3	17	ND
42. Light grey plastic (PP) (Wheel, window) + Dark red plastic (HDPE) (Bridge) + Dark grey plastic (ABS) (Track, tunnel, signboard)	3	18	ND
43. Bright orange plastic (PC) (Figure) + Yellow plastic (ABS) (Repair lifting, accessory, railing, figure, house) + Black plastic (ABS) (Accessory, road gate, train, back of clock, signboard, base, lifting, figure, hand bag)	3	19	ND
44. Yellow plastic (PP) (Accessory) + Red plastic (ABS) (Roof) + Orange plastic (ABS) (Truck, figure, hand bag, lifting, train)	3	20	ND
45. Apricot soft plastic (PVC) (Figure) + Brown soft plastic (PVC) (Figure)	3	21	ND
46. Cream plywood (Bridge, station) + Brown Hardboard	3	22	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	8	1	/	ND	ND	ND	ND	ND	ND	ND	ND
2	8	2	/	ND	ND	ND	ND	ND	ND	ND	ND
3	8	3	/	ND	ND	ND	ND	ND	ND	ND	ND
4	8	4	/	ND	ND	ND	ND	ND	ND	ND	ND
5	8	5	/	ND	ND	ND	ND	ND	ND	ND	ND
6	8	6	/	ND	ND	ND	ND	ND	ND	ND	ND
7	8	7	/	ND	ND	ND	ND	ND	ND	ND	ND
8	8	8	/	ND	ND	ND	ND	ND	ND	ND	ND
9	8	9	/	ND	ND	ND	ND	ND	ND	ND	ND
10	8	10	/	ND	ND	ND	ND	ND	ND	ND	ND
11	8	11	/	ND	ND	ND	ND	ND	ND	ND	ND
12	8	12	/	ND	ND	ND	ND	ND	ND	ND	ND
13	8	13	/	ND	ND	ND	ND	ND	ND	ND	ND
14	8	14	/	ND	ND	ND	ND	ND	ND	ND	ND
15	8	15	/	ND	ND	ND	ND	ND	ND	ND	ND
16	8	16	/	ND	ND	ND	ND	ND	ND	ND	ND
17	8	17	/	ND	ND	ND	ND	ND	ND	ND	ND
18	8	18	/	ND	ND	ND	ND	ND	ND	ND	ND
19	8	19	/	ND	ND	ND	ND	ND	ND	ND	ND
20	8	20	/	ND	ND	ND	ND	ND	ND	ND	ND
21	8	21	/	ND	ND	ND	ND	ND	ND	ND	ND
22	8	22	/	ND	ND	ND	ND	ND	ND	ND	ND
23	8	23	/	ND	ND	ND	ND	ND	ND	ND	ND
24	8	30	/	ND	ND	ND	ND	ND	ND	ND	ND
25	8	37	/	ND	ND	ND	ND	ND	ND	ND	ND
26	8	38	/	ND	ND	ND	ND	ND	ND	ND	ND
27	8	39	/	ND	ND	ND	ND	ND	ND	ND	ND
28	8	40	88.4	ND	ND	ND	ND	ND	ND	ND	ND
29	8	41	/	ND	ND	ND	ND	ND	ND	ND	ND
30	8	42	/	ND	ND	ND	ND	ND	ND	ND	ND
31	8	43	/	ND	ND	ND	ND	ND	ND	ND	ND
32	8	44	/	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)							
33	8	45	/	ND	ND	ND	ND	ND	ND	ND	ND
34	8	46	88.0	ND	ND	ND	ND	ND	ND	ND	ND
35	8	47	/	ND	ND	ND	ND	ND	ND	ND	ND
36	8	48	/	ND	ND	ND	ND	ND	ND	ND	ND
37	8	49	/	ND	ND	ND	ND	ND	ND	ND	ND
38	8	50	/	ND	ND	ND	ND	ND	ND	ND	ND
39	8	56	/	ND	ND	ND	ND	ND	ND	ND	ND
40	8	57	/	ND	ND	ND	ND	ND	ND	ND	ND
41	8	58	/	ND	ND	ND	ND	ND	ND	ND	ND
42	8	61	/	ND	ND	ND	ND	ND	ND	ND	ND
43	8	62	/	ND	ND	ND	ND	ND	ND	ND	ND
44	8	63	/	ND	ND	ND	ND	ND	ND	ND	ND
45	8	64	/	ND	ND	ND	ND	ND	ND	ND	ND
46	8	65	/	ND	ND	ND	ND	ND	ND	ND	ND
47	8	66	/	ND	ND	ND	ND	ND	ND	ND	ND
48	8	70	/	ND	ND	ND	ND	ND	ND	ND	ND
49	8	71	/	ND	ND	ND	ND	ND	ND	ND	ND
50	8	76	/	ND	ND	ND	ND	ND	ND	ND	ND
51	8	77	/	ND	ND	ND	ND	ND	ND	ND	ND
52	8	78	/	ND	ND	ND	ND	ND	ND	ND	ND
53	8	113	/	ND	ND	ND	ND	ND	ND	ND	ND
54	8	115	/	ND	ND	ND	ND	ND	ND	ND	ND
55	8	116	/	ND	ND	ND	ND	ND	ND	ND	ND
56	8	117	/	ND	ND	ND	ND	ND	ND	ND	ND
57	8	118	/	ND	ND	ND	ND	ND	ND	ND	ND
58	8	120	/	ND	ND	ND	12	ND	ND	ND	ND
59	8	121	/	ND	ND	ND	ND	ND	ND	ND	ND
60	8	122	/	ND	ND	ND	ND	ND	ND	ND	ND
61	8	123	/	ND	ND	ND	ND	ND	ND	ND	ND
62	8	125	/	ND	ND	ND	ND	ND	ND	ND	ND
63	8	126	/	ND	ND	ND	ND	ND	ND	ND	ND
64	8	60	/	ND	ND	ND	ND	ND	ND	ND	ND



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Specimen Description:

1. Matt light grey plastic (PP) (Side board)
2. Matt dark grey plastic (HDPE) (Pier)
3. Light grey plastic (PS) (Track, accessory)
4. Red plastic (PE) (Railing, bridge)
5. Dull grey plastic (Crane)
6. Black plastic (Crane, connector)
7. Matt-black plastic (PP) (Wheel, knob)
8. Black plastic (Holder)
9. Bright grey plastic (ABS) (Track, roof, button, repair station)
10. Dark grey plastic (ABS) (Truck)
11. Bright white plastic (ABS) (Train)
12. Transparent black plastic (Train)
13. Dull light grey plastic (ABS) (Train)
14. Light grey plastic (ABS) (Train, wheel, signboard)
15. Brown plastic (HIPS) (Ladder)
16. Dull dark grey plastic (Accessory)
17. Blue plastic (ABS) (Train)
18. Bright red plastic (PP) (Roof, lift, handle, knob, guardrail)
19. Dull blue plastic (ABS) (Figure)
20. Dull blue plastic (PC) (Figure)
21. Apricot soft plastic (PVC) (Figure)
22. Black soft plastic (Wheel)
23. Transparent plastic film (Board)
24. Dull white plastic (Nut)
25. Vivid red plastic (ABS) (Roof, train)
26. White plastic (ABS) (Roof, ladder, ticket, signboard)



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Specimen Description:

27. Transparent plastic (Shade)
28. Transparent plastic (LED)
29. Bright red plastic (ABS) (Roof, elevator)
30. Matt red plastic (Knob)
31. Bright dark grey plastic (Connector)
32. Snow-white plastic (ABS) (Wicket, railing)
33. Grey-green plastic (ABS) (Track)
34. Transparent plastic sheet (Ticket)
35. Pale pink plastic (ABS) (Figure)
36. Pale pink plastic (PC) (Figure)
37. Cyan plastic (ABS) (Figure)
38. Rose-red plastic (Hand bag)
39. Grey plastic (PA) (Holder)
40. Dull apricot plastic (Connector)
41. White woven cord
42. Dull red plastic (Figure)
43. Dark grey-green plastic (ABS) (Figure)
44. Matt light grey plastic (ABS) (Figure)
45. Grey-white plastic (ABS) (Figure)
46. Yellow plastic (PC) (Figure)
47. Brown soft plastic (PVC) (Figure)
48. Cream plastic (Connector)
49. Grey plastic (PP) (Station)
50. Pale blue plastic (ABS) (Figure)
51. Pale blue plastic (PC) (Figure)



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Specimen Description:

52. Translucent plastic (LED)
53. Cream plywood (Bridge, station)
54. Light grey plastic (PP) (Wheel, window)
55. Dark red plastic (HDPE) (Bridge)
56. Dark grey plastic (ABS) (Track, tunnel, signboard)
57. Bright orange plastic (PC) (Figure)
58. Brown Hardboard
59. Yellow plastic (ABS) (Repair lifting, accessory, railing, figure, house)
60. Black plastic (ABS) (Accessory, road gate, train, back of clock, signboard, base, lifting, figure, hand bag)
61. Yellow plastic (PP) (Accessory)
62. Red plastic (ABS) (Roof)
63. Orange plastic (ABS) (Truck, figure, hand bag, lifting, train)
64. Matt-grey plastic (Station)

- Note:
- ppm = parts per million
 - µg/component = microgramme per component
 - 1% = 10000 mg/kg = 10000 ppm = 10000 µg/g
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit

- For Soluble Heavy Metal Content:

Result(s) of specimen No.53 is(are) extracted from report No. T52210251514TY

Result(s) of specimen No.54 - No.58 is(are) extracted from report No. T52210261844TY

Result(s) of specimen No.59 - No.61 is(are) extracted from report No. T52210262151TY

Result(s) of specimen No.62 - No.63 is(are) extracted from report No. T52210241079TY



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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	11	Pass	Pass	N/A
Impact test (16 CFR 1500.53b)	11	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)	11	Pass	Pass	N/A
Tension test (16 CFR 1500.53f)	11	Pass	Pass	N/A
Compression test (16 CFR 1500.53g)	11	Pass	Pass	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 JUN 10, 2022.



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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

<u>Sample</u>	<u>Burning Rate (inch/sec)</u>
E3702 RECORD LISTEN & LIGHT RAILWAY STATION	0.03
E3709 LIFTING BRIDGE	
E3704 BIG ENGINE SHED	
E3710 EXTENDED DOUBLE SUSPENSION BRIDGE	
E3756 MINING LOADER SET	
E3730 BUSY CITY RAIL SET	
E3725 GRAND CITY STATION	
E3728 INTERCITY TRAIN	
E3729 PASSENGER TRAIN SET	
E3732 CROSSING & CRANE SET	
E3766 70PIECE RAILWAY TRAIN	

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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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. Dull dark green coating on wood (Tree) w/ Silvery coating on plastic (Train, pattern) w/ Bright dark red coating on plastic (Lifting) w/ Bright orange coating on plastic (Lifting) w/ Light blue coating on plastic (Ticket) w/ Purple coating on plastic (Ticket) w/ Bright black coating on plastic (Lifting)	6	1	ND
2. Transparent lacquer coating on wood (Lift, pile, board, tree, accessory) w/ Light grey coating on wood (Pile) w/ Grass green coating on wood (Tree) w/ Bright grass green coating on wood (Tree)	6	2	ND
3. Blue coating on plastic (Train, signboard) w/ White coating on plastic (Signboard, clock, train, figure) w/ Matt red coating on plastic (Signboard, lifting) w/ Light grey coating on plastic (Track, figure) w/ Pale grey coating on plastic (Track, repair station, wicket) w/ Dark grey-green coating on plastic (Train)	6	3	ND
4. Black coating on wood (Truck, train, pile, lift, lettering) w/ Dull blue coating on wood (Train) + Grey coating on wood (Lift, pile, block station) + Transparent lacquer w/ green coating on wood (Block) w/ Bright green coating on wood (Block)	6	4	ND
5. Cream w/ light brown, white coating on wood (Board) w/ Red w/ pink coating on wood (Pile, train, block, station) w/ Cream coating on plastic (Figure) w/ Dull pink, dull orange, dull silvery coating on plastic (Figure) w/ Dull cyan coating on plastic (Figure)	6	5	ND
6. Dark cream coating on wood (Edge) w/ Grey-black coating on soft plastic (Figure) w/ Dull blue coating on soft plastic (Figure) w/ Bright yellow coating on soft plastic (Figure) w/ Bright orange coating on soft plastic (Figure) w/ Pink coating on soft plastic (Figure)	6	6	ND
7. Light lake blue coating on wood (Block) w/ Yellow coating on plastic (Train) w/ Black coating on plastic (Train, figure, clock, truck, signboard, repair station, wicket) w/ Pale blue coating on plastic (Truck, figure, lifting) w/ Cream-yellow coating on plastic (Figure) w/ Dull brown coating on soft plastic (Figure)	6	7	ND



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Test Item(s)			Lead (Pb)
Permissible Limit (ppm)			90
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
8. Dull grey coating on wood (Bridge) w/ Chocolate coating on wood (Logo) w/ Bright light green coating on plastic (Railing, road gate, ticket, signboard) w/ Dull dark grey coating on wood (Train)	6	8	ND
9. Dark grey w/ white coating on wood (Board) w/ Multi-color coating on wood (Board) w/ Grey-black coating on wood (Board)	6	9	ND
10. Transparent lacquer w/ blue coating on wood (Train) w/ Bright yellow coating on plastic (Repair station) w/ Dark grey coating on plastic (Repair station) w/ Multi-color coating on plastic sheet (Ticket) w/ Light red coating on plastic (Ticket) w/ Orange coating on plastic (Ticket)	6	10	ND
11. Transparent lacquer w/ light blue coating on wood (Train, block) w/ White coating on wood (Pile, truck, car, pattern, train) w/ Dull orange coating on wood (Lift, train, block) w/ Bright brown coating on plastic (Figure) w/ Dull yellow coating on plastic (Truck) w/ Bright blue coating on wood (Block)	6	11	ND
12. Yellow coating on wood (Block) w/ Dark cyan coating on wood (Train) + Dark green coating on wood (Train) w/ Pale yellow coating on wood (Train)	6	12	ND
13. Light yellow coating on wood (Car, lifting) w/ Dull cyan, blue-black coating on wood (Car) w/ Black coating on metal (Train)	6	13	ND

- Note:
- ppm = parts per million
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit = 10 ppm
 - 1% = 10000 mg/kg = 10000 ppm



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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,
P2122403028 NBCN 2/2022
P2122402306 NBCN 0921
P2122401693 NBCN 07/2021
P2122403370 NBCN 02/2022
P2122403367 NBCN 02/2022
P2122402537 NBCN 10/2021
P2122403371 NBCN 02/2022
P2122402884 NBCN 12/2021
P2122402263 NBCN 07/2021
P2122401865 NBCN 08/2021
P2122401912 NBCN 07/2021

- 3) Date: P2122403028 NBCN 2/2022
P2122402306 NBCN 0921
P2122401693 NBCN 07/2021
P2122403370 NBCN 02/2022
P2122403367 NBCN 02/2022
P2122402537 NBCN 10/2021
P2122403371 NBCN 02/2022
P2122402884 NBCN 12/2021
P2122402263 NBCN 07/2021
P2122401865 NBCN 08/2021
P2122401912 NBCN 07/2021

- 4) Cohort information: P2122403028 NBCN 2/2022
P2122402306 NBCN 0921
P2122401693 NBCN 07/2021
P2122403370 NBCN 02/2022
P2122403367 NBCN 02/2022
P2122402537 NBCN 10/2021
P2122403371 NBCN 02/2022
P2122402884 NBCN 12/2021
P2122402263 NBCN 07/2021
P2122401865 NBCN 08/2021
P2122401912 NBCN 07/2021

- Tracking label found on the product:

- 1) Name: Hape International AG
- 2) Location: Made in China, YY0033
P2122402306 NBCN 0921
P2122401693 NBCN 07/2021
P2122403370 NBCN 02/2022
P2122403367 NBCN 02/2022
P2122402537 NBCN 10/2021



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3) Date:

P2122403371 NBCN 02/2022
P2122402884 NBCN 12/2021
P2122402263 NBCN 07/2021
P2122401865 NBCN 08/2021
P2122401912 NBCN 07/2021
1120

4) Cohort information:

P2122402306 NBCN 0921
P2122401693 NBCN 07/2021
P2122403370 NBCN 02/2022
P2122403367 NBCN 02/2022
P2122402537 NBCN 10/2021
P2122403371 NBCN 02/2022
P2122402884 NBCN 12/2021
P2122402263 NBCN 07/2021
P2122401865 NBCN 08/2021
P2122401912 NBCN 07/2021
1120

P2122402306 NBCN 0921
P2122401693 NBCN 07/2021
P2122403370 NBCN 02/2022
P2122403367 NBCN 02/2022
P2122402537 NBCN 10/2021
P2122403371 NBCN 02/2022
P2122402884 NBCN 12/2021
P2122402263 NBCN 07/2021
P2122401865 NBCN 08/2021
P2122401912 NBCN 07/2021

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. Dull dark green coating on wood (Tree) w/ Silvery coating on plastic (Train, pattern) w/ Bright dark red coating on plastic (Lifting) w/ Bright orange coating on plastic (Lifting) w/ Light blue coating on plastic (Ticket) w/ Purple coating on plastic (Ticket) w/ Bright black coating on plastic (Lifting)	7	1	ND
2. Transparent lacquer coating on wood (Lift, pile, board, tree, accessory) w/ Light grey coating on wood (Pile) w/ Grass green coating on wood (Tree) w/ Bright grass green coating on wood (Tree)	7	2	ND
3. Blue coating on plastic (Train, signboard) w/ White coating on plastic (Signboard, clock, train, figure) w/ Matt red coating on plastic (Signboard, lifting) w/ Light grey coating on plastic (Track, figure) w/ Pale grey coating on plastic (Track, repair station, wicket) w/ Dark grey-green coating on plastic (Train)	7	3	ND
4. Black coating on wood (Truck, train, pile, lift, lettering) w/ Dull blue coating on wood (Train) + Grey coating on wood (Lift, pile, block station) + Transparent lacquer w/ green coating on wood (Block) w/ Bright green coating on wood (Block)	7	4	ND
5. Cream w/ light brown, white coating on wood (Board) w/ Red w/ pink coating on wood (Pile, train, block, station) w/ Cream coating on plastic (Figure) w/ Dull pink, dull orange, dull silvery coating on plastic (Figure) w/ Dull cyan coating on plastic (Figure)	7	5	ND
6. Dark cream coating on wood (Edge) w/ Grey-black coating on soft plastic (Figure) w/ Dull blue coating on soft plastic (Figure) w/ Bright yellow coating on soft plastic (Figure) w/ Bright orange coating on soft plastic (Figure) w/ Pink coating on soft plastic (Figure)	7	6	ND



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Test Item(s)	Lead (Pb)		
Permissible Limit (ppm)	90		
Client's Limit (ppm)	40		
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
7. Light lake blue coating on wood (Block) w/ Yellow coating on plastic (Train) w/ Black coating on plastic (Train, figure, clock, truck, signboard, repair station, wicket) w/ Pale blue coating on plastic (Truck, figure, lifting) w/ Cream-yellow coating on plastic (Figure) w/ Dull brown coating on soft plastic (Figure)	7	7	ND
8. Dull grey coating on wood (Bridge) w/ Chocolate coating on wood (Logo) w/ Bright light green coating on plastic (Railing, road gate, ticket, signboard) w/ Dull dark grey coating on wood (Train)	7	8	ND
9. Dark grey w/ white coating on wood (Board) w/ Multi-color coating on wood (Board) w/ Grey-black coating on wood (Board)	7	9	ND
10. Transparent lacquer w/ blue coating on wood (Train) w/ Bright yellow coating on plastic (Repair station) w/ Dark grey coating on plastic (Repair station) w/ Multi-color coating on plastic sheet (Ticket) w/ Light red coating on plastic (Ticket) w/ Orange coating on plastic (Ticket)	7	10	ND
11. Transparent lacquer w/ light blue coating on wood (Train, block) w/ White coating on wood (Pile, truck, car, pattern, train) w/ Dull orange coating on wood (Lift, train, block) w/ Bright brown coating on plastic (Figure) w/ Dull yellow coating on plastic (Truck) w/ Bright blue coating on wood (Block)	7	11	ND
12. Yellow coating on wood (Block) w/ Dark cyan coating on wood (Train) + Dark green coating on wood (Train) w/ Pale yellow coating on wood (Train)	7	12	ND
13. Light yellow coating on wood (Car, lifting) w/ Dull cyan, blue-black coating on wood (Car) w/ Black coating on metal (Train)	7	13	ND

- Note:
- ppm = parts per million
 - 1% = 10000 mg/kg = 10000 ppm
 - MDL = Method Detection Limit = 10 ppm
 - ND = Not Detected (lower than MDL)



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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. Iridescent metal nut	2	1	ND
2. Silvery metal cap	2	2	ND
3. Silvery metal cap w/ logo	2	3	ND
4. Bright silvery metal big rivet w/ logo	2	4	ND
5. Bright silvery metal small rivet w/ logo	2	5	ND
6. Silvery metal big rivet	2	6	ND
7. Silvery metal small rivet	2	7	ND
8. Bright silvery small cap nail	2	8	ND
9. Silvery metal chassis	2	9	ND
10. Black metal triangular screw	2	10	ND
11. Bright silvery-blue metal screw	2	11	ND
12. Iridescent bright silvery metal part	2	12	ND
13. Silvery-blue metal bolt	2	13	ND
14. Bright silvery-blue metal small screw	2	14	ND
15. Silvery metal small screw (Battery cover)	2	15	ND
16. Silvery metal flat big screw	2	16	ND
17. Silvery metal cap screw	2	17	ND
18. Silvery metal flat small screw	2	18	ND
19. Shiny silvery metal big head screw	2	19	ND
20. Silvery metal big screw	2	20	ND
21. Bright silvery-blue metal big screw	2	21	ND
22. Black metal spring	2	22	ND
23. Dull silvery metal piece	2	23	ND
24. Bright silvery metal screw (Battery cover)	2	24	21
25. Matt light grey plastic (PP) (Side board) + Matt dark grey plastic (HDPE) (Pier) + Light grey plastic (PS) (Track, accessory)	4	1	ND
26. Red plastic (PE) (Railing, bridge) + Dull grey plastic (Crane) + Black plastic (Crane, connector)	4	2	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)
27. Matt-black plastic (PP) (Wheel, knob) + Black plastic (Holder) + Bright grey plastic (ABS) (Track, roof, button, repair station)	4	3	ND
28. Dark grey plastic (ABS) (Truck) + Bright white plastic (ABS) (Train) + Transparent black plastic (Train)	4	4	ND
29. Dull light grey plastic (ABS) (Train) + Light grey plastic (ABS) (Train, wheel, signboard) + Brown plastic (HIPS) (Ladder)	4	5	ND
30. Dull dark grey plastic (Accessory) + Blue plastic (ABS) (Train) + Bright red plastic (PP) (Roof, lift, handle, knob, guardrail)	4	6	ND
31. Dull blue plastic (ABS) (Figure) + Dull blue plastic (PC) (Figure) + Vivid red plastic (ABS) (Roof, train)	4	7	ND
32. Black soft plastic (Wheel) + Transparent plastic film (Board) w/ Transparent plastic sheet (Ticket)	4	8	ND
33. White plastic (ABS) (Roof, ladder, ticket, signboard) + Transparent plastic (Shade) + Bright red plastic (ABS) (Roof, elevator)	4	9	ND
34. Translucent plastic (LED) + Transparent plastic (LED)	4	10	ND
35. Matt red plastic (Knob) + Bright dark grey plastic (Connector) + Snow-white plastic (ABS) (Wicket, railing)	4	11	ND
36. Grey-green plastic (ABS) (Track) + Pale pink plastic (ABS) (Figure) + Pale pink plastic (PC) (Figure)	4	12	ND
37. Cyan plastic (ABS) (Figure) + Rose-red plastic (Hand bag) + Grey plastic (PA) (Holder)	4	13	ND
38. Dull apricot plastic (Connector) + Matt-grey plastic (Station) + Dull red plastic (Figure)	4	14	ND
39. Dark grey-green plastic (ABS) (Figure) + Matt light grey plastic (ABS) (Figure) + Grey-white plastic (ABS) (Figure)	4	15	ND
40. Yellow plastic (PC) (Figure) + Cream plastic (Connector) + Grey plastic (PP) (Station)	4	16	ND
41. Pale blue plastic (ABS) (Figure) + Pale blue plastic (PC) (Figure) + Dull white plastic (Nut)	4	17	ND
42. Light grey plastic (PP) (Wheel, window) + Dark red plastic (HDPE) (Bridge) + Dark grey plastic (ABS) (Track, tunnel, signboard)	4	18	ND
43. Bright orange plastic (PC) (Figure) + Yellow plastic (ABS) (Repair lifting, accessory, railing, figure, house) + Black plastic (ABS) (Accessory, road gate, train, back of clock, signboard, base, lifting, figure, hand bag)	4	19	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)
44. Yellow plastic (PP) (Accessory) + Red plastic (ABS) (Roof) + Orange plastic (ABS) (Truck, figure, hand bag, lifting, train)	4	20	ND
45. Apricot soft plastic (PVC) (Figure) + Brown soft plastic (PVC) (Figure)	4	21	ND
46. Cream plywood (Bridge, station) + Brown Hardboard	4	22	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

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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Shenzhen Branch Testing Center Hardlines

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Sample Picture (As received)

Pic.1



Pic.2



Pic.3



Pic.4



Sample Picture (As received)

Pic.5

E3730



Pic.6

E3710



Pic.7

E3702



Pic.8

E3729



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Sample Picture (As received)

Pic.9

E3704



Pic.10

E3709



Pic.11

E3728



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*** End of Report ***



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