

Test Report No.: T52210262483TY Date: APR 29, 2022 Page 1 of 28

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:

E0417 FANTASIA BLOCKS TRAIN E0426 COLOR AND SHAPE SORTER E0430 ROLLER DERBY E0434 TAKE-ALONG ACTIVITY BOX **E0406 DOUBLE RAINBOW STACKER E0504 COUNTING STACKER**

: E0417, E0426, E0430, E0434, E0406, E0504 Item No.

Country of Origin **CHINA**

Country of Destination GLOBAL

Client Reference Information E0417A,E0417B,E0426A,E0430A,E0434A,E0406A,

Asin No B006WZM2Q2,B008E18S60,B00I6N13AE,B00NFTIPWI,

B001ODCOTW,B008E18SGK

Labeled Age Grading 10M+/12M+/18M+

Requested Age Grading OVER 10 MONTHS FOR ITEM NO. E0434;

OVER 12 MONTHS FOR OTHERS;

OVER 18 MONTHS FOR ITEM NO. E0426 AND E0417

Age Group Assessed by SGS As Per Age : OVER 10 MONTHS FOR ITEM NO. E0434;

Guideline

OVER 12 MONTHS FOR OTHERS;

OVER 18 MONTHS FOR ITEM NO. E0426 AND E0417

Age Group Applied in Testing : OVER 10 MONTHS FOR ITEM NO. E0434;

OVER 12 MONTHS FOR OTHERS;

OVER 18 MONTHS FOR ITEM NO. E0426 AND E0417

Sample Receiving Date : APR 11, 2022 Further Information Date : APR 29, 2022

Testing Period : APR 11, 2022 TO APR 29, 2022



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Test	Requested	Conclusion
1.	With reference to the test requirement of ASTM F963-17 Standard Consumer Safety Specification on Toy Safety. (Selected specimen(s) was/were tested as specified by the applicant, please refer to test result page(s) for details)	
	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:	
	- 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 	PASS
	 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 	
	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 in the specified specimen(s) as listed	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	Test Requested					
5.	CPSIA section 101 - Total Lead content in the specified specimen(s) as listed					
	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				

The results of this report are extracted from the test report number T52210260680TY where the sample(s) / material(s) of sample is(are) claimed to be identical.

******* FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *******

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch Testing Center

Qu Ping, Kiky Dept. Manager Huang Yao, Lucy Section Head







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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>	Description	Result
4	Safety Requirements	
4.1	Material Quality **	Pass Pass
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	N/A
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	<u>N/A</u>
407	Feather Origin	NI/A
4.3.7	Stuffing Materials	N/A
4.3.8	DEHP (DOP)	N/A
4.4	Electrical/Thermal Energy	<u>N/A</u>
4.5	Sound-Producing Toys	Pass -
4.6.1	Small Objects	<u>Pass</u>
4.6.2	Mouth-Actuated Toys	N/A
4.6.3	Labelling Requirements	<u>N/A</u>
4.7	Accessible Edges	<u>Pass</u>
4.8	Projections	<u>Pass</u>
4.9	Accessible Points	<u>Pass</u>
4.10	Wires or Rods	<u>N/A</u>
4.11	Nails and Fasteners	<u>Pass</u>



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<u>Clause</u> 4.12 4.13.1	Description Plastic Film Folding Mechanisms	Result N/A N/A N/A
4.13.2 4.14	Hinge-Line Clearance	
4.14 4.15	Cords, Straps and Elastic	Pass N/A
4.15	Stability and Over-Load Requirements Confined Spaces	<u>N/A</u>
4.17	Wheels, Tires, and Axles	Pass
4.17	Holes, Clearance & Accessibility of Mechanisms	<u> </u>
4.19	Simulated Protective Devices	N/A
4.19	Pacifiers	<u>N/A</u>
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	<u>N/A</u>
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	<u>Pass</u>
4.35	Pompoms	N/A
4.36	Hemispheric-Shaped Objects	N/A
4.37	Yo Yo Elastic Tether Toys	N/A
4.38	Magnets	<u>N/A</u>
4.39	Jaw Entrapment in Handles and Steering Wheels	N/A
4.40	Expanding Materials	<u>N/A</u>
4.41	Toy Chest	N/A
5	Safety Labeling Requirements	
5.2	Age Grading Labeling	<u>Pass</u>
5.3	Safety Labeling Requirements	N/A



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

N/A = Not Applicable

** Visual Examination



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Result Page:

Flammability Test (Clause 4.2)

E0504 COUNTING STACKER

Flammability Test on Solid

Sample
E0417 FANTASIA BLOCKS TRAIN
E0426 COLOR AND SHAPE SORTER
E0430 ROLLER DERBY
E0434 TAKE-ALONG ACTIVITY BOX
E0406 DOUBLE RAINBOW STACKER

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





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ASTM F963-17, Clause 4.3.5.1 – Heavy Elements in Paint/Similar Surface Coating Materials

Method: With reference to CPSC-CH-E1003-09.1

Method: With reference to ASTM F963-17 Clause 8.3

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

Total Lead Content

Test Item(s)								
MDL (ppm)								
Total Limit (ppm)			90					
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)					
1. Orange coating on wood (Block) + Pale blue coating on wood (Ball)	1	1	ND					
2. Transparent lacquer coating on plywood & wood (Base, body) + Red coating on wood (Block)	1	2	ND					
3. Light green coating on wood (Block, wheel) w/ Yellow coating on wood (Pattern) + Blue coating on wood (Block, pattern) + Light yellow-green coating on wood (Block)	1	3	ND					
4. White coating on wood (Pattern, block, eye) w/ Black coating on wood (Motion, eye) + Yellow-green coating on wood (Block) w/ Brown coating on wood (Pattern)	1	4	ND					
5. Transparent lacquer w/ dark green coating on wood (Block) w/ Light orange coating on wood (Block) + Transparent lacquer w/ dark blue coating on wood (Wheel)	1	5	ND					
6. Bright dark blue coating on wood (Block, pattern) w/ Light yellow coating on wood (Pattern) w/ Dull yellow-green coating on wood (Pattern)	1	6	ND					
7. Dark yellow coating on wood (Block, pattern) + Pink-purple coating on wood (Block) + Purple coating on wood (Block)	1	7	ND					
8. Transparent lacquer w/ fuchsia coating on wood (Block, pattern) w/ Light pink-purple coating on wood (Pattern) w/ Dull purple coating on wood (Pattern)	1	8	ND					
Orange-yellow coating on wood (Block, pattern) + Transparent lacquer w/ dark orange coating on wood (Wheel)	1	9	ND					
10. Transparent lacquer w/ bright dark blue coating on wood (Block) + Transparent lacquer w/ blue coating on wood (Block) + Transparent lacquer w/ light blue coating on wood (Block)	1	10	ND					
11. Bright yellow-green coating on wood (Block) + Bright yellow coating on wood (Block) w/ Black coating on plywood (Lettering)	1	11	ND					



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Test Item(s)			Lead (Pb)				
MDL (ppm)							
Total Limit (ppm)			90				
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)				
12. Transparent lacquer w/ dull dark blue coating (Ball) + Transparent lacquer w/ green coating on wood (Ball) w/ Dark green coating on wood (Ball)	1	12	ND				
13. Transparent lacquer w/ light red coating on wood (Ball) w/ Dull yellow coating on wood (Ball) + Dull blue coating on wood (Body)	1	13	ND				
14. Blue coating on wood (Body) w/ Light brown coating on wood (Pattern) + Transparent lacquer w/ bright red coating on wood (Body, block)	1	14	29				
15. Transparent lacquer w/ bright green coating on wood (Body) w/ Light pink-purple coating on wood (Pattern) w/ Light blue coating on wood (Pattern)	1	15	ND				
16. Bright green coating on metal (Body) + Blue coating on metal (Body) + Red coating on metal (Body)	1	16	ND				
17. Dull blue w/ light blue coating on wood (Body) + Dull light green coating on wood (Body) + Dull light blue coating on wood (Body)	1	18	ND				
18. Transparent lacquer w/ dull green, black coating on wood (Motion) w/ Blackish green coating on wood (Motion) + Transparent lacquer w/ blue, black coating on wood (Motion) w/ Light blue coating (Motion)	1	19	ND				
19. Bright green coating on hardboard (Block) w/ Dull pink coating on wood (Body) w/ Bright light green coating on wood (Body)	1	20	ND				
20. Bright dark orange coating on hardboard (Block) + Dark orange- yellow coating on hardboard (Block) + Dull dark blue coating on hardboard (Block)	1	21	ND				
21. Dull dark yellow coating on wood (Block) w/ Dull red coating on wood (Block) w/ Dull dark green coating on wood (Block)	1	22	ND				
22. Dull orange coating on wood (Body)	01T-1	2	ND				



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Soluble Heavy Metal Content

Test Item(s))			Pb	Sb	As	Ва	Cd	Cr	Hg	Se
MDL (ppm)	-			5	5	2.5	10	5	5	5	10
Migration L	imit (ppr	n)		90	60	25	1000	75	60	60	500
Specimen	Alias	Tracing	Mass of trace		۸di	ustad N	Migratio	n Posi	ult/c) (n	nm)	•
No.	No.	No.	amount (mg)		Auj	usieu i	viigratio	ii Kest	iit(s) (b	piii)	
1	4	2	57.6	ND	ND	ND	ND	ND	ND	ND	ND
2	4	3	51.7	ND	ND	ND	ND	ND	ND	ND	ND
3	4	5	/	ND	ND	ND	ND	ND	ND	ND	ND
4	4	8	/	ND	ND	ND	ND	ND	ND	ND	ND
5	4	12	38.2	ND	ND	ND	ND	ND	ND	ND	ND
6	4	13	21.9	ND	ND	ND	ND	ND	ND	ND	ND
7	4	15	/	ND	ND	ND	ND	ND	ND	ND	ND
8	4	16	/	ND	ND	ND	ND	ND	ND	ND	ND
9	4	17	/	ND	ND	ND	ND	ND	ND	ND	ND
10	4	19	/	ND	ND	ND	ND	ND	ND	ND	ND
11	4	21	/	ND	ND	ND	ND	ND	ND	ND	ND
12	4	22	/	ND	ND	ND	ND	ND	ND	ND	ND
13	4	25	/	ND	ND	ND	ND	ND	ND	ND	ND
14	4	26	/	ND	ND	ND	ND	ND	ND	ND	ND
15	4	29	/	ND	ND	ND	ND	ND	ND	ND	ND
16	4	30	/	ND	ND	ND	ND	ND	ND	ND	ND
17	4	31	/	ND	ND	ND	ND	ND	ND	ND	ND
18	4	32	/	ND	ND	ND	15	ND	ND	ND	ND
19	4	33	/	ND	ND	ND	ND	ND	ND	ND	ND
20	4	34	/	ND	ND	ND	ND	ND	ND	ND	ND
21	4	35	/	ND	ND	ND	ND	ND	ND	ND	ND
22	4	36	/	ND	ND	ND	ND	ND	ND	ND	ND
23	4	37	/	ND	ND	ND	ND	ND	ND	ND	ND
24	4	39	/	ND	ND	ND	ND	ND	ND	ND	ND
25	4	40	18.6	ND	ND	ND	ND	ND	ND	ND	ND
26	4	41	/	ND	ND	ND	ND	ND	ND	ND	ND
27	4	42	/	ND	ND	ND	ND	ND	ND	ND	ND
28	4	43	21.7	ND	ND	ND	ND	ND	ND	ND	ND
29	4	44	/	ND	ND	ND	ND	ND	ND	ND	ND
30	4	46	/	ND	ND	ND	27	ND	ND	ND	ND
31	4	47	/	ND	ND	ND	ND	ND	ND	ND	ND
32	4	48	/	ND	ND	ND	130	ND	ND	ND	ND
33	4	49	/	ND	ND	ND	ND	ND	ND	ND	ND



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Test Report No.: T52210262483TY Date: APR 29, 2022 Page 11 of 28

Test Item(s))			Pb	Sb	As	Ва	Cd	Cr	Hg	Se
MDL (ppm)				5	5	2.5	10	5	5	5	10
Migration L	imit (ppn	n)		90	60	25	1000	75	60	60	500
Specimen No.	Alias No.	Tracing No.	Mass of trace amount (mg)		Adj	usted N	/ligratio	n Resu	ılt(s) (p	pm)	
34	4	55	/	ND	ND	ND	304	ND	ND	ND	ND
35	4	56	/	ND	ND	ND	95	ND	ND	ND	ND
36	4	60	/	39	ND	ND	43	ND	17	ND	ND
37	4	64	/	ND	ND	ND	24	ND	ND	ND	ND
38	4	65	/	ND	ND	ND	ND	ND	ND	ND	ND
39	4	66	/	ND	ND	ND	ND	ND	ND	ND	ND
40	4	67	/	ND	ND	ND	ND	ND	ND	ND	ND
41	4	68	/	ND	ND	ND	ND	ND	ND	ND	ND
42	4	70	/	ND	ND	ND	ND	ND	ND	ND	ND
43	4	73	39.0	ND	ND	ND	ND	ND	ND	ND	ND
44	4	75	/	ND	ND	ND	ND	ND	ND	ND	ND
45	4	76	/	ND	ND	ND	ND	ND	ND	ND	ND
46	4	77	/	ND	ND	ND	ND	ND	ND	ND	ND
47	4	78	/	ND	ND	ND	ND	ND	ND	ND	ND
48	4	79	/	ND	ND	ND	ND	ND	ND	ND	ND

Specimen Description:

- 1. Orange coating on wood (Block)
- 2. Pale blue coating on wood (Ball)
- 3. Transparent lacquer coating on plywood & wood (Base, body)
- 4. Red coating on wood (Block)
- 5. Light green coating on wood (Block, wheel)
- 6. Blue coating on wood (Block, pattern)
- 7. Light yellow-green coating on wood (Block)
- 8. White coating on wood (Pattern, block, eye)
- 9. Yellow-green coating on wood (Block)
- 10. Transparent lacquer w/ dark green coating on wood (Block)
- 11. Bright dark blue coating on wood (Block, pattern)
- 12. Transparent lacquer w/ dark blue coating on wood (Wheel)



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Test Report No.: T52210262483TY Date: APR 29, 2022 Page 12 of 28

Specimen Description:

- 13. Dark yellow coating on wood (Block, pattern)
- 14. Transparent lacquer w/ fuchsia coating on wood (Block, pattern)
- 15. Pink-purple coating on wood (Block)
- 16. Purple coating on wood (Block)
- 17. Orange-yellow coating on wood (Block, pattern)
- 18. Transparent lacquer w/ dark orange coating on wood (Wheel)
- 19. Transparent lacquer w/ bright dark blue coating on wood (Block)
- 20. Transparent lacquer w/ blue coating on wood (Block)
- 21. Transparent lacquer w/ light blue coating on wood (Block)
- 22. Bright yellow-green coating on wood (Block)
- 23. Bright yellow coating on wood (Block)
- 24. Transparent lacquer w/ dull dark blue coating (Ball)
- 25. Dark green coating on wood (Ball)
- 26. Transparent lacquer w/ green coating on wood (Ball)
- 27. Transparent lacquer w/ light red coating on wood (Ball)
- 28. Dull yellow coating on wood (Ball)
- 29. Dull blue coating on wood (Body)
- 30. Transparent lacquer w/ bright red coating on wood (Body, block)
- 31. Transparent lacquer w/ bright green coating on wood (Body)
- 32. Bright green coating on metal (Body)
- 33. Blue coating on wood (Body)
- 34. Blue coating on metal (Body)
- 35. Red coating on metal (Body)
- 36. Multi-color coating on wood (Pattern)
- 37. Dull blue w/ light blue coating on wood (Body)
- 38. Dull light green coating on wood (Body)
- 39. Dull light blue coating on wood (Body)



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Room (1-1-0ft) and 4 a Room (1) Flant 2 Room (10, Flant 2 Room (



Test Report No.: T52210262483TY Date: APR 29, 2022 Page 13 of 28

Specimen Description:

- 40. Dull orange coating on wood (Body)
- 41. Transparent lacquer w/ dull green, black coating on wood (Motion)
- 42. Transparent lacquer w/ blue, black coating on wood (Motion)
- 43. Dull pink coating on wood (Body)
- 44. Bright dark orange coating on hardboard (Block)
- 45. Dark orange-yellow coating on hardboard (Block)
- 46. Dull dark blue coating on hardboard (Block)
- 47. Bright green coating on hardboard (Block)
- 48. Dull dark yellow coating on wood (Block)

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 Total Lead Content:
 Result(s) is(are) extracted from report No. T52210260680TY
- For Soluble Heavy Metal Content:
 - Result(s) of specimen No.1 is(are) extracted from report No. T52110300913TY.
 - Result(s) of specimen No.2 is(are) extracted from report No. T52110320530TY.
 - Result(s) of specimen No.3 is(are) extracted from report No. T52110321297TY.
 - Result(s) of specimen No.4 is(are) extracted from report No. T52210251514TY.
 - Result(s) of specimen No.5-No.6 is(are) extracted from report No. T52210250061TY.
 - Result(s) of specimen No.7-No.48 is(are) extracted from report No. T52210260680TY



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Room (1-19ft) Hard 4 Room (11) Flant 2 Room (11) Flant 2 Room (12) Room (1



Test Report No.: T52210262483TY Date: APR 29, 2022 Page 14 of 28

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 coating on wood (Pattern) Brown coating on wood (Pattern) Light orange coating on wood (Block) Light yellow coating on wood (Pattern) Dull yellow-green coating on wood (Pattern) Light pink-purple coating on wood (Pattern) Dull purple coating on wood (Pattern) Black coating on plywood (Lettering) Light brown coating on wood (Pattern) Light pink-purple coating on wood (Pattern) Light blue coating on wood (Pattern) Blackish green coating on wood (Motion) Black coating on wood (Motion, eye) Light blue coating (Motion) Bright light green coating on wood (Body) Dull red coating on wood (Block) Dull dark green coating on wood (Block)



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Test Report No.: T52210262483TY Date: APR 29, 2022 Page 15 of 28

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)								
MDL (ppm)								
Total Limit (ppm)			100					
Specimen Description Alias Tracing No. No.								
Black plastic (ABS) (Fastener) + Blue plastic (POM) (Fastener) + Red plastic (POM) (Fastener)	2	1	ND					
2. Cream-white plastic (PA) (Sliding block) + Dark beige plastic (PE) (Fastener) w/ Transparent dry glue (Joint)	2	2	ND					
3. Green plastic (POM) (Fastener) + Beige plastic (PA) (Stud) + Cream plastic (PA) (Bell)	2	3	ND					
4. Transparent plastic (PMMA) (Mirror) + Light blue plastic (PA) (Fastener) + Orange plastic (PA) (Fastener)	2	4	ND					
5. Brown hardboard + Cream plywood (Body)	2	5	ND					
6. Silvery metal pole	3	1	ND					
7. Silvery metal big screw	3	2	ND					
8. Silvery metal rivet	3	3	ND					
9. Silvery metal bell	3	4	ND					
10. Silvery metal small screw	3	5	ND					
11. White rubber core (Elastic cord)	7	1	ND					



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Test Report No.: T52210262483TY Date: APR 29, 2022 Page 16 of 28

Soluble Heavy Metal Content

Test Item(s)				Pb	Sb	As	Ва	Cd	Cr	Hg	Se
MDL (ppm)				5	5	2.5	10	5	5	5	10
Migration Limit (ppm) Other Than Modeling Clays					60	25	1000	75	60	60	500
Migration Li	mit (ppr	n) Model	ing Clays	90	60	25	250	50	25	25	500
Specimen Alias Tracing Mass of trace No. No. No. amount (mg)				Adj	usted N	/ligratio	n Resu	lt(s) (p	om)		
1	4	1	/	ND	ND	ND	ND	ND	ND	ND	ND
2	4	4	/	ND	ND	ND	ND	ND	ND	ND	ND
3	4	6	/	ND	ND	ND	12	ND	ND	ND	ND
4	4	7	/	ND	ND	ND	ND	ND	ND	ND	ND
5	4	9	/	ND	ND	ND	ND	ND	ND	ND	ND
6	4	10	/	ND	ND	ND	13	ND	ND	ND	ND
7	4	11	17.2	ND	ND	ND	ND	ND	ND	ND	ND
8	4	52	/	ND	ND	ND	ND	ND	ND	ND	ND
9	4	53	/	ND	ND	ND	ND	ND	ND	ND	ND
10	4	54	/	ND	ND	ND	ND	ND	ND	ND	ND
11	4	57	/	ND	ND	ND	ND	ND	ND	ND	ND
12	4	58	/	ND	ND	ND	ND	ND	ND	ND	ND
13	4	59	/	ND	ND	ND	ND	ND	ND	ND	ND
14	4	61	/	ND	ND	ND	ND	ND	ND	ND	ND
15	4	62	/	ND	ND	ND	ND	ND	ND	ND	ND
16	4	63	/	ND	ND	ND	ND	ND	ND	ND	ND



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Test Report No.: T52210262483TY Date: APR 29, 2022 Page 17 of 28

Specimen Description:

- 1. White rubber core (Elastic cord)
- 2. Black plastic (ABS) (Fastener)
- 3. Brown hardboard
- 4. Cream-white plastic (PA) (Sliding block)
- 5. Cream plywood (Body)
- 6. White woven cord (Elastic cord)
- 7. Transparent dry glue (Joint)
- 8. Green plastic (POM) (Fastener)
- 9. Blue plastic (POM) (Fastener)
- 10. Red plastic (POM) (Fastener)
- 11. Beige plastic (PA) (Stud)
- 12. Cream plastic (PA) (Bell)
- 13. Transparent plastic (PMMA) (Mirror)
- 14. Light blue plastic (PA) (Fastener)
- 15. Orange plastic (PA) (Fastener)
- 16. Dark beige plastic (PE) (Fastener)

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.
- For Total Lead Content: Result(s) is(are) extracted from report No. T52210260680TY
- Soluble Heavy Metal Content:

Result(s) of specimen No.1 & No.8-No.16 is(are) extracted from report No. T52210260680TY

Result(s) of specimen No.2 is(are) extracted from report No. T52110321296TY.

Result(s) of specimen No.3 is(are) extracted from report No. T52110280192TY.

Result(s) of specimen No.4 - No.5 is(are) extracted from report No. T52210251514TY.

Result(s) of specimen No.6- No.7 is(are) extracted from report No. T52210250061TY.



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Room (1-19ft) Hard 4 Room (11) Flant 2 Room (11) Flant 2 Room (12) Room (1



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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	Sharp point	Sharp edge	
	<u>sample</u>	(16 CFR	(16 CFR	Small part
	tested	<u>1500.48)</u>	<u>1500.49)</u>	(16 CFR 1501)
As received	6	Pass	Pass	Pass
Impact test (16 CFR 1500.51b&52b)	6	Pass	Pass	Pass
Bite test (16 CFR 1500.52c)	6	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)	6	Pass	Pass	Pass
Tension test (16 CFR 1500.52f)	6	Pass	Pass	Pass
Compression test (16 CFR	6	Pass	Pass	Pass
1500.53g)				

N/A = Not Applicable





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

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

Sample
E0417 FANTASIA BLOCKS TRAIN
E0426 COLOR AND SHAPE SORTER
E0430 ROLLER DERBY
E0434 TAKE-ALONG ACTIVITY BOX
E0406 DOUBLE RAINBOW STACKER
E0504 COUNTING STACKER

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





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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)
Orange coating on wood (Block) + Pale blue coating on wood (Ball)	5	1	ND
Transparent lacquer coating on plywood & wood (Base, body) + Red coating on wood (Block)	5	2	ND
3. Light green coating on wood (Block, wheel) w/ Yellow coating on wood (Pattern) + Blue coating on wood (Block, pattern) + Light yellow-green coating on wood (Block)	5	3	ND
4. White coating on wood (Pattern, block, eye) w/ Black coating on wood (Motion, eye) + Yellow-green coating on wood (Block) w/ Brown coating on wood (Pattern)	5	4	ND
5. Transparent lacquer w/ dark green coating on wood (Block) w/ Light orange coating on wood (Block) + Transparent lacquer w/ dark blue coating on wood (Wheel)	5	5	ND
6. Bright dark blue coating on wood (Block, pattern) w/ Light yellow coating on wood (Pattern) w/ Dull yellow-green coating on wood (Pattern)	5	6	ND
7. Dark yellow coating on wood (Block, pattern) + Pink-purple coating on wood (Block) + Purple coating on wood (Block)	5	7	ND
8. Transparent lacquer w/ fuchsia coating on wood (Block, pattern) w/ Light pink-purple coating on wood (Pattern) w/ Dull purple coating on wood (Pattern)	5	8	ND
9. Orange-yellow coating on wood (Block, pattern) + Transparent lacquer w/ dark orange coating on wood (Wheel)	5	9	ND
10. Transparent lacquer w/ bright dark blue coating on wood (Block) + Transparent lacquer w/ blue coating on wood (Block) + Transparent lacquer w/ light blue coating on wood (Block)	5	10	ND
11. Bright yellow-green coating on wood (Block) + Bright yellow coating on wood (Block) w/ Black coating on plywood (Lettering)	5	11	ND
12. Transparent lacquer w/ dull dark blue coating (Ball) + Transparent lacquer w/ green coating on wood (Ball) w/ Dark green coating on wood (Ball)	5	12	ND



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Room 101-019 Part & Room 101-19 Part & Room 101-19 Part & Room 101-19 Part As Room 10



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Test Item(s)			Lead (Pb)
Permissible Limit (ppm)			90
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
13. Transparent lacquer w/ light red coating on wood (Ball) w/ Dull yellow coating on wood (Ball) + Dull blue coating on wood (Body)	5	13	ND
14. Blue coating on wood (Body) w/ Light brown coating on wood (Pattern) + Transparent lacquer w/ bright red coating on wood (Body, block)	5	14	29
15. Transparent lacquer w/ bright green coating on wood (Body) w/ Light pink-purple coating on wood (Pattern) w/ Light blue coating on wood (Pattern)	5	15	ND
16. Bright green coating on metal (Body) + Blue coating on metal (Body) + Red coating on metal (Body)	5	16	ND
17. Dull blue w/ light blue coating on wood (Body) + Dull light green coating on wood (Body) + Dull light blue coating on wood (Body)	5	18	ND
18. Transparent lacquer w/ dull green, black coating on wood (Motion) w/ Blackish green coating on wood (Motion) + Transparent lacquer w/ blue, black coating on wood (Motion) w/ Light blue coating (Motion)	5	19	ND
19. Bright green coating on hardboard (Block) w/ Dull pink coating on wood (Body) w/ Bright light green coating on wood (Body)	5	20	ND
20. Bright dark orange coating on hardboard (Block) + Dark orange-yellow coating on hardboard (Block) + Dull dark blue coating on hardboard (Block)	5	21	ND
21. Dull dark yellow coating on wood (Block) w/ Dull red coating on wood (Block) w/ Dull dark green coating on wood (Block)	5	22	ND
22. Dull orange coating on wood (Body)	01T-2	2	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) is(are) extracted from report No. T52210260680TY



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Room 101-019 Part & Room 101-101 Part & Room 101-101 Part & Room 101-101 Part A Room



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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:

Hape international Inc. 1) Name:

2) Location: MADE IN CHINA

P2122402930 NBCN 01/2022 P2122403445 NBCN 03/2022 P2122401176 NBCN 06/2021 P2122401750 NBCN 09/2021 P2122402466 NBCN 10/2021 P2122402546 NBCN 10/2021

3) Date: P2122402930 NBCN 01/2022

P2122403445 NBCN 03/2022 P2122401176 NBCN 06/2021 P2122401750 NBCN 09/2021 P2122402466 NBCN 10/2021 P2122402546 NBCN 10/2021

4) Cohort information: P2122402930 NBCN 01/2022

> P2122403445 NBCN 03/2022 P2122401176 NBCN 06/2021 P2122401750 NBCN 09/2021 P2122402466 NBCN 10/2021 P2122402546 NBCN 10/2021

- Tracking label found on the of the product:

1) Name: Hape

2) Location: P2122402930 NBCN 01/2022

> P2122402930 NBCN 01/2022 P2122401176 NBCN 06/2021 P2122401750 NBCN 09/2021 P2122402466 NBCN 07/2021 P2122402546 NBCN 10/2021

3) Date: P2122402930 NBCN 01/2022

P2122402930 NBCN 01/2022 P2122401176 NBCN 06/2021 P2122401750 NBCN 09/2021 P2122402466 NBCN 07/2021 P2122402546 NBCN 10/2021

4) Cohort information: P2122402930 NBCN 01/2022

P2122402930 NBCN 01/2022 P2122401176 NBCN 06/2021 P2122401750 NBCN 09/2021 P2122402466 NBCN 07/2021 P2122402546 NBCN 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.



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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)
Pe	rmissible Limit (ppm)			90
	ent's Limit (ppm)			40
Sp	ecimen Description	Alias No.	Tracing No.	Result(s) (ppm)
	Orange coating on wood (Block) + Pale blue coating on wood (Ball)	6	1	ND
	Transparent lacquer coating on plywood & wood (Base, body) + Red coating on wood (Block)	6	2	ND
3.	Light green coating on wood (Block, wheel) w/ Yellow coating on wood (Pattern) + Blue coating on wood (Block, pattern) + Light yellow-green coating on wood (Block)	6	3	ND
4.	White coating on wood (Pattern, block, eye) w/ Black coating on wood (Motion, eye) + Yellow-green coating on wood (Block) w/ Brown coating on wood (Pattern)	6	4	ND
5.	Transparent lacquer w/ dark green coating on wood (Block) w/ Light orange coating on wood (Block) + Transparent lacquer w/ dark blue coating on wood (Wheel)	6	5	ND
6.	Bright dark blue coating on wood (Block, pattern) w/ Light yellow coating on wood (Pattern) w/ Dull yellow-green coating on wood (Pattern)	6	6	ND
7.	coating on wood (Block) + Purple coating on wood (Block)	6	7	ND
	Transparent lacquer w/ fuchsia coating on wood (Block, pattern) w/ Light pink-purple coating on wood (Pattern) w/ Dull purple coating on wood (Pattern)	6	8	ND
9.	Orange-yellow coating on wood (Block, pattern) + Transparent lacquer w/ dark orange coating on wood (Wheel)	6	9	ND
	Transparent lacquer w/ bright dark blue coating on wood (Block) + Transparent lacquer w/ blue coating on wood (Block) + Transparent lacquer w/ light blue coating on wood (Block)	6	10	ND
11.	Bright yellow-green coating on wood (Block) + Bright yellow coating on wood (Block) w/ Black coating on plywood (Lettering)	6	11	ND



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Room 101-019 Part & Room 101-19 Part & Room 101-19 Part & Room 101-19 Part As Room 10



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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)
12. Transparent lacquer w/ dull dark blue coating (Ball) + Transparent lacquer w/ green coating on wood (Ball) w/ Dark green coating on wood (Ball)	6	12	ND
13. Transparent lacquer w/ light red coating on wood (Ball) w/ Dull yellow coating on wood (Ball) + Dull blue coating on wood (Body)	6	13	ND
 Blue coating on wood (Body) w/ Light brown coating on wood (Pattern) + Transparent lacquer w/ bright red coating on wood (Body, block) 	6	14	29
15. Transparent lacquer w/ bright green coating on wood (Body) w/ Light pink-purple coating on wood (Pattern) w/ Light blue coating on wood (Pattern)	6	15	ND
16. Bright green coating on metal (Body) + Blue coating on metal (Body) + Red coating on metal (Body)	6	16	ND
17. Dull blue w/ light blue coating on wood (Body) + Dull light green coating on wood (Body) + Dull light blue coating on wood (Body)	6	18	ND
18. Transparent lacquer w/ dull green, black coating on wood (Motion) w/ Blackish green coating on wood (Motion) + Transparent lacquer w/ blue, black coating on wood (Motion) w/ Light blue coating (Motion)	6	19	ND
19. Bright green coating on hardboard (Block) w/ Dull pink coating on wood (Body) w/ Bright light green coating on wood (Body)	6	20	ND
20. Bright dark orange coating on hardboard (Block) + Dark orange-yellow coating on hardboard (Block) + Dull dark blue coating on hardboard (Block)	6	21	ND
21. Dull dark yellow coating on wood (Block) w/ Dull red coating on wood (Block) w/ Dull dark green coating on wood (Block)	6	22	ND
22. Dull orange coating on wood (Body)	01T-3	2	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) is(are) extracted from report No. T52210260680TY



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Room 101-019 Part & Room 101-101 Part & Room 101-101 Part & Room 101-101 Part A Room



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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)
Black plastic (ABS) (Fastener) + Blue plastic (POM) (Fastener) + Red plastic (POM) (Fastener)	8	1	ND
2. Cream-white plastic (PA) (Sliding block) + Dark beige plastic (PE) (Fastener) w/ Transparent dry glue (Joint)	8	2	ND
3. Green plastic (POM) (Fastener) + Beige plastic (PA) (Stud) + Cream plastic (PA) (Bell)	8	3	ND
4. Transparent plastic (PMMA) (Mirror) + Light blue plastic (PA) (Fastener) + Orange plastic (PA) (Fastener)	8	4	ND
5. Brown hardboard + Cream plywood (Body)	8	5	ND
6. Silvery metal pole	9	1	ND
7. Silvery metal big screw	9	2	ND
8. Silvery metal rivet	9	3	ND
9. Silvery metal bell	9	4	ND
10. Silvery metal small screw	9	5	ND
11. White rubber core (Elastic cord)	10	1	ND

^{**} Permissible Limit applies to a children's product manufactured after 14 August 2011 (Public Law 110-314 (Consumer Product Safety Improvement Act of 2008) and its Amendments Public Law 112-28)

Note: - 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) is(are) extracted from report No. T52210260680TY



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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 = U₉₅. The Probability of False Accept and the Probability of False Reject of the decision rule are 2.5%.

For Upper Tolerance Limit (Tu):

Pass - when the measurement result is below Tu-U95

Fail - when the measurement result is above Tu+U95

Inconclusive - when the measurement result is falling in guard band [Tu-U95, Tu+U95]

For Lower Tolerance Limit (T_L):

Pass - when the measurement result is above T_L+U₉₅

Fail - when the measurement result is below T_L-U₉₅

Inconclusive - when the measurement result is falling in guard band [T_L-U₉₅, T_L+U₉₅]

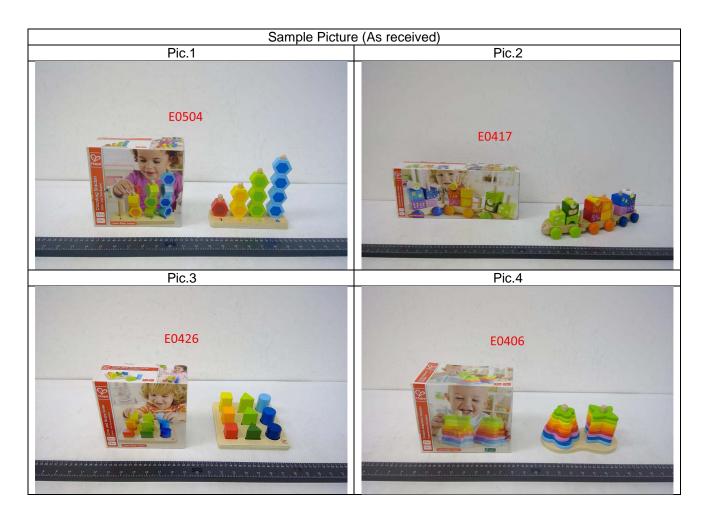


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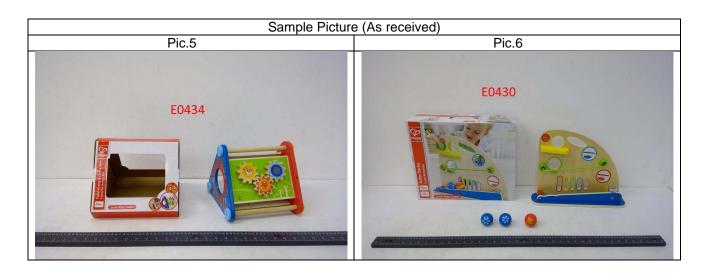
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