



中国认可  
国际互认  
检测  
TESTING  
CNAS L2929

**Test Report**

No.: T52010241699TY

Date: APR 30, 2020

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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:

DYNAMO DOMINOES  
CONSTRUCTION DOMINO SET  
ROBOT FACTORY DOMINO

Item No. : E1042, E1056, E1057  
Country of Origin : CHINA  
Country of Destination : GLOBEL  
Client Reference Information : E1042B,E1056A,E1057A  
Labeled Age Grading : 3Y+/ 4Y+  
Requested Age Grading : 3Y+/ 4Y+

\*\*\*\*\*

Age Group Assessed by SGS As Per Age : OVER 3 YEARS  
Guideline  
Age Group Applied in Testing : OVER 3 YEARS  
Sample Receiving Date : APR 21, 2020  
Further Information Date : APR 27, 2020  
Testing Period : APR 21, 2020 TO APR 30, 2020



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Shenzhen Branch Testing Center Hardlines

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Test Requested		Conclusion
1.	For compliance with the test requirement of ASTM F963-17 Standard Consumer Safety Specification on Toy Safety.	--
	ASTM F963-17 Standard Consumer Safety Specification for Toy Safety	PASS
2.	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
3.	Tracking label per Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 tracking labels for children’s products.	PASS*
4.	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*

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





Liu Junjie, Tony  
 Section Manager  
 CNAS Approved Signatories

Qu Ping, Kiky  
 Dept. Manager  
 CNAS Approved Signatories



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**Results:**

**ASTM F963-17 STANDARD CONSUMER SAFETY SPECIFICATION FOR TOY SAFETY**

**AS SPECIFIED IN ASTM F963-17 STANDARD CONSUMER SAFETY SPECIFICATION ON TOYS SAFETY**

Clauses relevant to the item:

<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	
4.3.5	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>
4.5	Sound-Producing Toys	<u>Pass</u>
4.6.3	Labelling Requirements	<u>Pass*</u>
	*Retest samples were submitted on Apr 27, 2020.	
4.7	Accessible Edges	<u>Pass</u>
4.8	Projections	<u>Pass</u>
4.9	Accessible Points	<u>Pass</u>
4.11	Nails and Fasteners	<u>Pass</u>
4.12	Plastic Film	<u>Pass</u>
4.17	Wheels, Tires, and Axles	<u>Pass</u>
4.18	Holes, Clearance & Accessibility of Mechanisms	<u>Pass</u>
4.21	Projectile Toys	<u>Pass</u>
4.33	Marbles	<u>Pass*</u>
	*Retest samples were submitted on Apr 27, 2020.	
4.34	Balls	<u>Pass*</u>
	*Retest samples were submitted on Apr 27, 2020.	
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 27, 2020.	
5.11	Small Objects, Small Balls, Marbles, and Balloons	<u>Pass*</u>
	*Retest samples were submitted on Apr 27, 2020.	



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<u>Clause</u>	<u>Description</u>	<u>Result</u>
5.16	Promotional Materials	<u>Pass</u>
7	Producer's Markings	
7.1	Producer's Markings	<u>Pass</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>Pass</u>

\*\* Visual Examination

Result Page:

Flammability Test (Clause 4.2)

Flammability Test on Solid

<u>Sample</u>	<u>Burning Rate (inch/sec)</u>
DYNAMO DOMINOES CONSTRUCTION DOMINO SET ROBOT FACTORY DOMINO	0.1*

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

Requirement: A toy / component is considered a "flammable solid" if it ignites and burns with a self-sustaining flame at a rate greater than 0.10 in/sec along its major axis.



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**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. Light green coating on wood (Block) + Light blue coating on wood (Block, base) + Dark blue coating on wood (Block, ball)	5	1	ND
2. Red coating on metal (Support, bell) + Orange coating on metal (Support) + Light blue coating on metal (Support)	5	2	ND
3. Light green coating on metal (Support) + Pale green coating on metal (Rod)	5	3	ND
4. Red coating on wood (Block, support, accessory) + Yellow coating on wood (Block) + Orange coating on wood (Block, ball)	5	4	ND
5. Transparent lacquer coating on wood w/ white coating on wood (Ball), brown coating on wood (Logo)	5	5	ND
6. Silvery coating on wood (Pattern, accessory) + Black coating on wood (Pattern, block, lettering)	5	6	16
7. Dark orange coating on wood (Block) + Dark cyan coating on wood (Block, support)	5	7	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	31.2	ND	ND	ND	ND	ND	ND	ND	ND
2	1	2	99.7	ND	ND	ND	ND	ND	ND	ND	ND
3	1	3	/	ND	ND	ND	90	ND	ND	ND	ND
4	1	4	/	ND	ND	ND	125	ND	ND	ND	ND
5	1	5	/	ND	ND	ND	121	ND	ND	ND	ND
6	1	6	/	ND	ND	ND	50	ND	ND	ND	ND
7	1	7	29.6	ND	ND	ND	ND	ND	ND	ND	ND
8	1	15	11.7	ND	ND	ND	ND	ND	ND	ND	ND
9	1	16	37.1	ND	ND	ND	ND	ND	ND	ND	ND
10	1	17	30.5	ND	ND	ND	ND	ND	ND	ND	ND
11	1	18	27.0	ND	ND	ND	ND	ND	ND	ND	ND
12	1	19	/	ND	ND	ND	ND	ND	ND	ND	ND
13	1	23	17.2	ND	ND	ND	ND	ND	ND	ND	ND
14	1	24	/	ND	ND	ND	ND	ND	ND	ND	ND
15	1	25	99.6	ND	ND	ND	ND	ND	ND	ND	ND
16	1	26	/	ND	ND	ND	ND	ND	ND	ND	ND



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### Specimen Description:

1. Light green coating on wood (Block)
2. Light blue coating on wood (Block, base)
3. Red coating on metal (Support, bell)
4. Orange coating on metal (Support)
5. Light blue coating on metal (Support)
6. Light green coating on metal (Support)
7. Pale green coating on metal (Rod)
8. Dark blue coating on wood (Block, ball)
9. Red coating on wood (Block, support, accessory)
10. Yellow coating on wood (Block)
11. Orange coating on wood (Block, ball)
12. Transparent lacquer coating on wood
13. Silvery coating on wood (Pattern, accessory)
14. Black coating on wood (Pattern, block, lettering)
15. Dark orange w/ pink coating on wood (Block)
16. Dark cyan coating on wood (Block, support)



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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: 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.
  - As received, test portion of white coating on wood (Ball), brown coating on wood (Logo) 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
  - Soluble Heavy Metal Content:  
Result(s) of specimen No.1, No.9- No.12, No.14 is(are) extracted from report No. T51910302056TY  
Result(s) of specimen No.8, No.13 is(are) extracted from report No. T51910312525TY



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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)		
<b>MDL (ppm)</b>	10		
<b>Total Limit (ppm)</b>	100		
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
1. Black-grey plastic (ABS) (Nut, connector) + Dark red plastic (ABS) (Bead) + Transparent dark cyan plastic sheet (PP) (Track)	2	1	ND
2. Orange soft plastic (TPE) (Round connector) + Yellow soft plastic (TPE) (Round connector) + Dark blue soft plastic (TPE) (Round connector) w/ Transparent hot melt glue	2	2	ND
3. Cream plywood (Base, bridge, support, accessory) + Brown hardboard (Block)	2	3	ND
4. Silvery plastic (ABS) (Track, accessory) + Bright red plastic (ABS) (Tipper, accessory) + Black plastic (PP) (Wheel)	2	4	ND
5. Dark cyan fabric w/ light blue, black printing w/ blue fabric thread (Accessory)	2	5	ND
6. Transparent glass (Bead)	3	1	15
7. Dark cyan plastic (ABS) (Accessory) + Dark cyan rubber (Accessory) + Translucent white plastic (Accessory)	4	1	ND
8. Silvery metal thin pole (Accessory)	6	1	ND
9. Silvery metal small rivet (Accessory)	6	2	ND
10. Silvery metal big flat screw (Bottom, support)	6	3	ND
11. Silvery metal bell	6	4	ND
12. Silvery metal male rivet	6	5	ND
13. Silvery metal female rivet	6	6	ND
14. Silvery metal screw (Bottom)	6	7	ND
15. Silvery metal big screw (Support)	6	8	ND
16. Silvery metal thick pole (Accessory)	6	9	ND
17. Silvery metal medium pole (Accessory)	6	10	ND
18. Silvery metal cap of axle	6	11	ND
19. Silvery metal axle	6	12	23
20. Silvery metal big rivet (Accessory)	6	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) -- 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	8	/	ND	ND	ND	ND	ND	ND	ND	ND
2	1	9	/	ND	ND	ND	ND	ND	ND	ND	ND
3	1	10	/	ND	ND	ND	ND	ND	ND	ND	ND
4	1	11	/	ND	ND	ND	ND	ND	ND	ND	ND
5	1	12	/	ND	ND	ND	ND	ND	ND	ND	ND
6	1	13	/	ND	ND	ND	ND	ND	ND	ND	ND
7	1	14	93.1	ND	ND	ND	ND	ND	ND	ND	ND
8	1	20	/	ND	ND	ND	ND	ND	ND	ND	ND
9	1	21	/	ND	ND	ND	ND	ND	ND	ND	ND
10	1	22	/	ND	ND	ND	ND	ND	ND	ND	ND
11	1	27	/	ND	ND	ND	ND	ND	ND	ND	ND
12	1	28	/	ND	ND	ND	ND	ND	ND	ND	ND
13	1	29	/	ND	ND	ND	ND	ND	ND	ND	ND
14	1	30	/	ND	ND	ND	ND	ND	ND	ND	ND
15	1	31	/	ND	ND	ND	ND	ND	ND	ND	ND
16	1	32	/	ND	ND	ND	ND	ND	ND	ND	ND
17	1	33	/	ND	ND	ND	ND	ND	ND	ND	ND
18	1	34	99.9	ND	ND	ND	ND	ND	ND	ND	ND
19	1	35	/	ND	ND	ND	ND	ND	ND	ND	ND
20	1	36	85.2	ND	ND	ND	ND	ND	ND	ND	ND
21	1	37	53.1	ND	ND	ND	ND	ND	ND	ND	ND



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### Specimen Description:

1. Black-grey plastic (ABS) (Nut, connector)
2. Orange soft plastic (TPE) (Round connector)
3. Yellow soft plastic (TPE) (Round connector)
4. Dark blue soft plastic (TPE) (Round connector)
5. Blue woven cord (Elastic cord)
6. Orange woven cord (String)
7. Red woven cord (Bell)
8. Red plastic (ABS) (Bead)
9. Cream plywood (Base, bridge, support, accessory)
10. Brown hardboard (Block)
11. Transparent dark cyan plastic sheet (PP) (Track)
12. Silvery plastic (ABS) (Track, accessory)
13. Dark cyan fabric w/ light blue, black printing w/ blue fabric thread (Accessory)
14. Bright red plastic (ABS) (Tipper, accessory)
15. Black plastic (PP) (Wheel)
16. Dark cyan plastic (ABS) (Accessory)
17. Dark cyan rubber (Accessory)
18. Translucent white plastic (Accessory)
19. Transparent glass (Bead)
20. Black woven cord (Elastic cord)
21. Transparent hot melt glue



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- 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: The decision rule has prescribed in the regulation or standard, conformity reporting will base on the standard.
  - The result(s) is (are) calculated using the minimum specimen weight for composite test.
  - Soluble Heavy Metal Content:  
 Result(s) of specimen No.8 is(are) extracted from report No. T51910311327TY  
 Result(s) of specimen No.9 is(are) extracted from report No. T51910302056TY  
 Result(s) of specimen No.10 is(are) extracted from report No. T51910311650TY

**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. Light green coating on wood (Block) + Light blue coating on wood (Block, base) + Dark blue coating on wood (Block, ball)	7	1	ND
2. Red coating on metal (Support, bell) + Orange coating on metal (Support) + Light blue coating on metal (Support)	7	2	ND
3. Light green coating on metal (Support) + Pale green coating on metal (Rod)	7	3	ND
4. Red coating on wood (Block, support, accessory) + Yellow coating on wood (Block) + Orange coating on wood (Block, ball)	7	4	ND
5. Transparent lacquer coating on wood w/ white coating on wood (Ball), brown coating on wood (Logo)	7	5	ND
6. Silvery coating on wood (Pattern, accessory) + Black coating on wood (Pattern, block, lettering)	7	6	16
7. Dark orange coating on wood (Block) + Dark cyan coating on wood (Block, support)	7	7	ND



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- Note:
- ppm = parts per million
  - ND = Not Detected (lower than MDL)
  - MDL = Method Detection Limit = 10 ppm
  - 1% = 10000 mg/kg = 10000 ppm
  - The result(s) is (are) calculated using the minimum specimen weight for composite test.

**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 Inc.
  - 2) Location: MADE IN CHINA P1922401773 NBCN 12/2019 P1922400547 NBCN 08/2019 P1922401625 NBCN 12/2019
  - 3) Date: P1922401773 NBCN 12/2019 P1922400547 NBCN 08/2019 P1922401625 NBCN 12/2019
  - 4) Cohort information: P1922401773 NBCN 12/2019 P1922400547 NBCN 08/2019 P1922401625 NBCN 12/2019
- Tracking label found on the product:
  - 1) Name: Hape International AG
  - 2) Location: P1922401773 NBCN 12/2019 P1922400547 NBCN 08/2019 P1922401625 NBCN 12/2019
  - 3) Date: P1922401773 NBCN 12/2019 P1922400547 NBCN 08/2019 P1922401625 NBCN 12/2019
  - 4) Cohort information: P1922401773 NBCN 12/2019 P1922400547 NBCN 08/2019 P1922401625 NBCN 12/2019

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.

\*Retest samples were submitted on Apr 27, 2020.



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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. Light green coating on wood (Block) + Light blue coating on wood (Block, base) + Dark blue coating on wood (Block, ball)	10	1	ND
2. Red coating on metal (Support, bell) + Orange coating on metal (Support) + Light blue coating on metal (Support)	10	2	ND
3. Light green coating on metal (Support) + Pale green coating on metal (Rod)	10	3	ND
4. Red coating on wood (Block, support, accessory) + Yellow coating on wood (Block) + Orange coating on wood (Block, ball)	10	4	ND
5. Transparent lacquer coating on wood w/ white coating on wood (Ball), brown coating on wood (Logo)	10	5	ND
6. Silvery coating on wood (Pattern, accessory) + Black coating on wood (Pattern, block, lettering)	10	6	16
7. Dark orange coating on wood (Block) + Dark cyan coating on wood (Block, support)	10	7	ND

- Note:
- ppm = parts per million
  - ND = Not Detected (lower than MDL)
  - MDL = Method Detection Limit = 10 ppm
  - 1% = 10000 mg/kg = 10000 ppm
  - The result(s) is (are) calculated using the minimum specimen weight for composite test.



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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)		
<b>Permissible Limit ** (ppm)</b>	100		
<b>Client's Limit (ppm)</b>	40		
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
1. Black-grey plastic (ABS) (Nut, connector) + Dark red plastic (ABS) (Bead) + Transparent dark cyan plastic sheet (PP) (Track)	8	1	ND
2. Orange soft plastic (TPE) (Round connector) + Yellow soft plastic (TPE) (Round connector) + Dark blue soft plastic (TPE) (Round connector) w/ Transparent hot melt glue	8	2	ND
3. Cream plywood (Base, bridge, support, accessory) + Brown hardboard (Block)	8	3	ND
4. Silvery plastic (ABS) (Track, accessory) + Bright red plastic (ABS) (Tipper, accessory) + Black plastic (PP) (Wheel)	8	4	ND
5. Dark cyan fabric w/ light blue, black printing w/ blue fabric thread (Accessory)	8	5	ND
6. Dark cyan plastic (ABS) (Accessory) + Dark cyan rubber (Accessory) + Translucent white plastic (Accessory)	9	1	ND
7. Silvery metal thin pole (Accessory)	11	1	ND
8. Silvery metal small rivet (Accessory)	11	2	ND
9. Silvery metal big flat screw (Bottom, support)	11	3	ND
10. Silvery metal bell	11	4	ND
11. Silvery metal male rivet	11	5	ND
12. Silvery metal female rivet	11	6	ND
13. Silvery metal screw (Bottom)	11	7	ND
14. Silvery metal big screw (Support)	11	8	ND
15. Silvery metal thick pole (Accessory)	11	9	ND
16. Silvery metal medium pole (Accessory)	11	10	ND
17. Silvery metal cap of axle	11	11	ND
18. Silvery metal axle	11	12	23
19. Silvery metal big rivet (Accessory)	11	13	ND
20. Transparent glass (Bead)	12	1	15

\*\* 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)



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  - The result(s) is (are) calculated using the minimum specimen weight for composite test.

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

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2. When statement of conformity is made, unless inherent in the requested specification in standard, the results of compliance for tests requested is justified according to Decision rule based on the Binary Statement with Guard Band in ILAC-G8:09/2019 Clause 4.2.2:  
Pass - acceptance based on guard band; the measurement result being below the acceptance limit,  
Fail - rejection based on guard band; if the measurement result is above the acceptance limit.



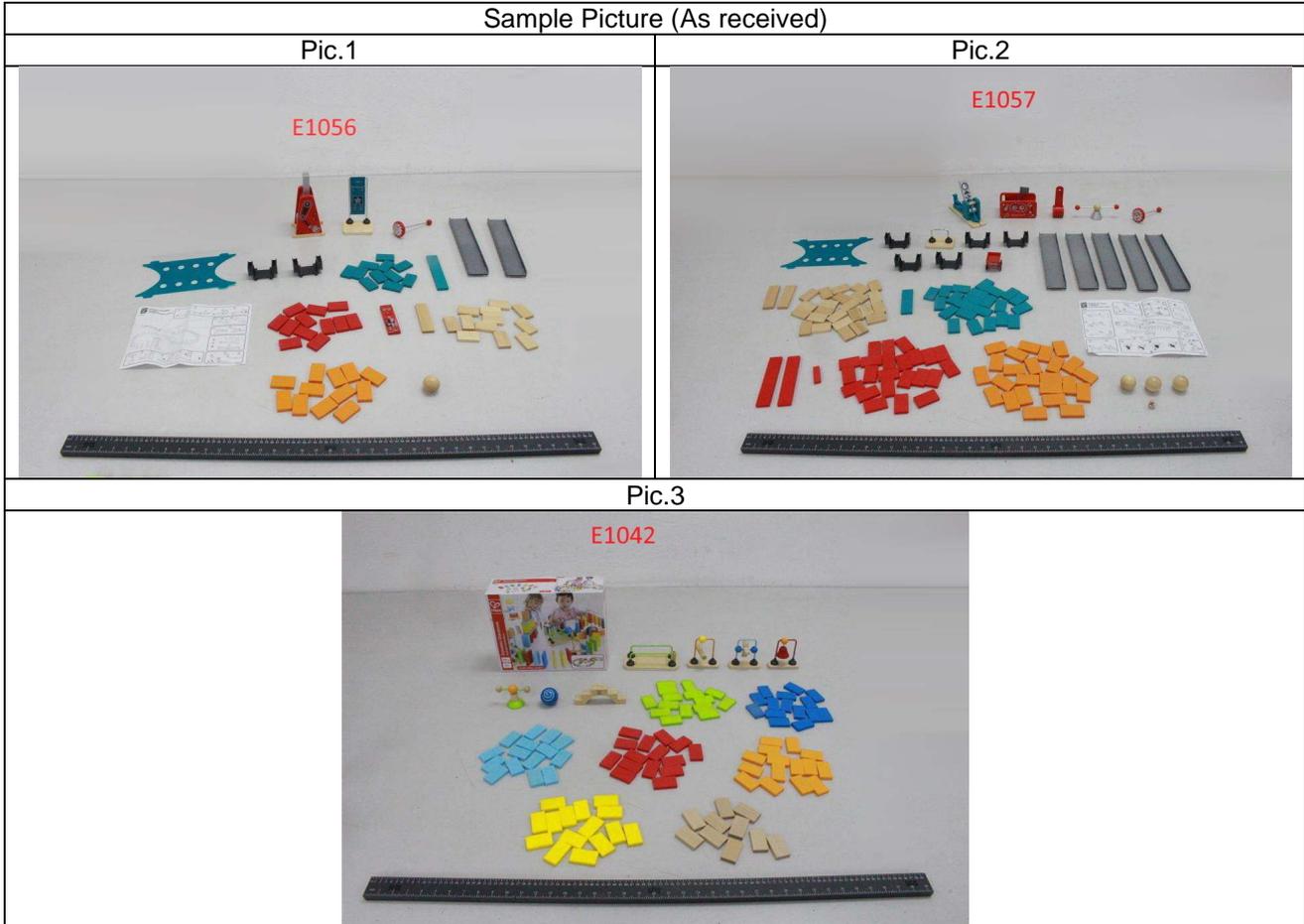
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