

CONSUMER PRODUCTS SERVICES DIVISION

CARPENTERS MANUFACTORY LIMITED

 Technical Report:
 (8520)090-0557(Revision)
 April 22, 2020

 Date Received:
 March 31, 2020
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CARPENTERS MANUFACTORY LIMITED HUANG JIN JI INDUSTRIAL ZONE SHANG JIE VILLAGE QI SHI TOWN DONGGUAN GUANGDONG CHINA

Sample Description: A.) 620H X 800L DIVIDER PANEL - TRANSLUCENT RED

B.) 1320H X 800L PANEL - ANTI-SCRATCH 2-SIDED ACRYLIC MIRROR

C.) 800L BAR HANDLE (OPTION)

D.) 1320H X 800L PANEL - ACRYLIC PAINTING WALL E.) 1320H X 1200L DIVIDER - ACRYLIC PAINTING WALL

F.) 535H TABLE LEGS 4 PIECE G.) 455H TABLE LEGS 4 PIECE

Vendor: CARPENTERS MANUFACTORY Sample Size: 14

LIMITED

Manufacturer: N/A (*)Style No(s): ME10711 (PA90591/

PA90614), ME08275, ME11725, ME09081, ME11350, **ME14832**,

ME14849

N/A

Buyer: N/A SKN/SKU No.: N/A

Labeled Age Grade: FOR STYLE 6,7=NOT PRESENT; PO No.: N/A

FOR OTHERS=3 YEARS +

Appropriate Age Grade: NOT REQUESTED Ref #: N/A Client Specified Age NOT SPECIFIED Country of Origin: CHINA

Grade: Country of Origin: Country of Origin:

OVER 3 YEARS OF AGE

UPC Code: 6955920090591/6955920090614, 6955920008275, 6955920011725, 6955920009081, 6955920011350

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Tested Age Grade:

Assortment No.:



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EXECUTIVE SUMMARY:

The sample(s) MEET the following requirement(s):

- The flammability requirements of 16 CFR 1500.3(c)(6)(vi), "Flammable solid" (FHSA regulations).
- Labeling requirements of "CE marking, manufacturer/ Importer name and address, and product identification" under "Directive 2009/48/EC Safety of Toy".
- The labeling requirements of the tested subclauses of the Australian/New Zealand Standard, "Safety of toys", AS/NZS ISO 8124: Part 1: 2019.
- The mechanical and physical properties requirements of the tested subclauses of the Australian/New Zealand Standard, "Safety of toys", AS/NZS ISO 8124: Part 1: 2019.
- The labeling requirements of the tested subclauses of the AS/NZS Standard, "Safety of toys", AS/NZS 8124: Part 1: 2016.
- The mechanical and physical properties requirements of the tested subclauses of the AS/NZS Standard, "Safety of toys", AS/NZS 8124: Part 1: 2016.
- The flammability requirements of the AS/NZS Standard, "Safety of toys", AS/NZS 8124: Part 2: 2016.
- The labeling requirements of ASTM F963-17, "Standard consumer safety specification for toy safety".
- The mechanical hazards requirements of ASTM F963-17, "Standard consumer safety specification for toy safety".
- The mechanical hazards requirements of the tested sections of Canada Consumer Product Safety Act, Toys Regulations, SOR/2011-17 and Schedule 2.
- The cellulose nitrate requirements of Canada Toys Regulations, SOR/2011-17, section 21.
- The mechanical and physical properties requirements of the tested subclauses of the European Standard, "Safety of toys", EN71: Part 1:2014+A1:2018, clauses 1-7.
- The flammability requirements of the European Standard "Safety of Toys", EN 71: Part 2: 2011+ A1: 2014.
- The migration of certain elements requirements of the AS/NZS Standard, "Safety of toys", AS/NZS 8124: Part 3: 2012 with Amendment No. 1: 2016.
- The soluble heavy metals content in surface coating requirements of ASTM F963-17, "Standard Consumer Safety Specification for Toy Safety," Section 4.3.5.1(2).
- The soluble heavy metals content in substrate requirements of ASTM F963-17, "Standard Consumer Safety Specification for Toy Safety," Section 4.3.5.2(2)(b).
- The applicable heavy metals content requirements for surface coatings of the Canada Consumer Product Safety Act, Toys Regulations, SOR/2011-17 Sec. 23 with Amendment in SOR/2016-195.
- The total lead content requirements of the Canada Consumer Product Safety Act, Consumer Products Containing Lead Regulations SOR/2018-83.
- The phthalates (BBP, DBP, DEHP, DINP, DIBP, DPENP, DHEXP & DCHP) content requirements of the Consumer Product Safety Improvement Act (CPSIA) of 2008 Sec. 108(a) and 108(c), 16 CFR 1307).



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EXECUTIVE SUMMARY:

The sample(s) MEET the following requirement(s):

- The total lead content of 100ppm requirements by composite testing in substrate materials (Consumer Products Safety Improvement Act (CPSIA) of 2008).
- The total lead content of 90ppm requirements of 16 CFR 1303, "Ban of lead-containing paint and certain consumer products bearing lead-containing paint" as mandated by Congress in section 101(f) of the Consumer Products Safety Improvement Act (CPSIA) of 2008, Public Law 110-314.
- The BBP, DBP DEHP and DIBP content requirements of the European Regulation (EC) No. 1907/2006 of the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex XVII concerning the Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles, Item no. 51 (amended up to EU No. 2018/2005).
- The BBP, DBP and DEHP content requirements of the European Regulation (EC) No. 1907/2006 of the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex XVII concerning the Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles, Item no. 51.
- The cadmium content requirement of the European Regulation (EC) No. 1907/2006 of the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex XVII concerning the Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles, Item no. 23 (amended up to EU No. 2016/217).
- The DNOP, DINP and DIDP content requirements of the European Regulation (EC) No. 1907/2006 of the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex XVII concerning the Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles, Item no. 52.
- The migration of certain elements requirements of the European Standard, "Safety of Toys", EN 71 Part 3: 2019.
- The migration of certain elements in Category III Scraped off toy material requirements of the European Standard, "Safety of Toys", EN 71 Part 3: 2013+A3:2018.
- The 17 phthalates content requirements of the client's specifications.
- The diisobutyl phthalate (DIBP) content requirement in toys of the European Council Directive 2009/48/EC (and its amendments), Annex II, Part III, Point 3.

Note: The sample(s) was not evaluated to the Normal Use testing requirements specified in ASTM F963-17, Section 8.5. It is the responsibility of the manufacturer, vendor or distributor to conduct tests that will simulate normal use conditions. These tests shall ensure that hazards are not generated through normal wear and deterioration of the sample(s). These tests shall also simulate the normal play mode of the toy and to simulate the expected mode of use of the particular toy. The tests shall be conducted in an expected use environment. These normal use tests shall simulate the intended use of the toy based on its estimated lifetime.

Note: The sample(s) submitted do not fall within the scope of EN 71-9 Formaldehyde thus the corresponding testing has/have not been conducted.

Note: Based on visual evaluation and/or material breakdown received, there is no applicable material(s) found in the sample(s) submitted and thus the corresponding testing of 2009/48/EC Formamide has/have not been conducted.



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(*)EXECUTIVE SUMMARY:

Note: Based on visual evaluation and/or material breakdown received, there is no applicable material(s) found in the sample(s) submitted and thus the corresponding testing of EC No. 1907/2006 Azodyes content (2017) has/have not been conducted.

Note: Exemptions were granted to certain materials or products, such as natural materials / paper and similar materials / CMYK process printing inks / metal & alloys / dyed & undyed textiles. Therefore, the lead content analysis of some components was not conducted.

Note: Based on visual evaluation and/or material breakdown received, there is no polyvinyl chloride (PVC) found in the samples submitted and thus the corresponding testing of the Canada Consumer Product Safety Act, Phthalates Regulations, SOR/2016-188 regarding to the restriction of use of certain phthalates content have not been conducted.

Note: According to the associated documents of Consumer Product Safety Improvement Act (CPSIA) of 2008, exemptions were granted to certain materials or products, such as natural materials / paper and similar materials / CMYK process printing inks / metal & alloys / electronics devices components / ordinary books / dyed & undyed textiles. Therefore, the lead content analysis of some components was not conducted.

Note: According to ASTM F963-17, "Standard consumer safety specification on toy safety", Annex A11.10.1.5, exemption were granted to paper and paperboard. Therefore, the heavy metals content in substrate analysis of some components of ASTM F963-17, Section 4.3.5.2(2)(b) was not conducted.

Note: This report is amendment of and supersedes the previous (8520)090-0557 dated April 21, 2020.

BUREAU VERITAS SHENZHEN CO., LTD.

Hon Yin Kan Manager

Toys And Juvenile Products Department

HK/ su



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RESULTS:

APPROPRIATE AGE GRADE DETERMINATION

The Appropriate Age Grade is determined with reference to the Age Determination Guidelines of the Consumer Product Safety Commission (CPSC); and the ASTM F963-17, "Standard Consumer Safety Specification for Toy Safety". Annex A1

Note: The most stringent age grade from the Labeled Age Grade and the Appropriate Age Grade will be used for

testing.

Note: If the client does not specify an age grade for testing or request Bureau Veritas Consumer Products

Services, Inc. to determine an appropriate age grade, the labeled age grade will be used for testing.

USE AND ABUSE TESTS

The samples were undergo the tests in accordance with section 8.6 through 8.16, whichever is applicable			
Test Test Parameters Standard Reference			
Impact Test	4 x 3 ft	1500.53(b)	
Torque Test	4 in-lbs	1500.53(e)	
Tension Test	15 lbs	1500.53(f)	
Compression Test	30 lbs	1500.53(g)	



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RESULTS:

PHYSICAL AND MECHANICAL HAZARDS (ASTM F963-17)

Section	Requirement	Result
4.1	Material Quality	М
4.3.7	Stuffing Materials	N/A
4.5	Sound-Producing Toys	N/A
4.6	Small Objects	N/A
4.7	Accessible Edges	М
4.8	Projections	N/A
4.9	Accessible Points	М
4.10	Wires and Rods	N/A
4.11	Nails and Fasteners	М
4.12	Plastic Film	М
4.13	Folding Mechanisms and Hinges	N/A
4.14	Cords, Straps and Elastics	N/A
4.15	Stability and Over-Load Requirements	N/A
4.16	Confined Spaces	N/A
4.17	Wheels, Tires, and Axles	N/A
4.18	Holes, Clearances and Accessibility of Mechanisms	М
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	N/A
	(exclude Section 4.25.10 Battery-powered ride-on toys & Section 4.25.11 Toys that Contain Secondary Cells or Secondary Batteries)	
4.26	Toys Intended to be Attached to a Crib or Playpen	N/A
4.27	Stuffed and Beanbag-Type Toys	N/A
4.30	Toy Gun Marking	N/A
4.32	Certain Toys with Nearly Spherical Ends	N/A
4.34	Small Balls	N/A
4.35	Pompoms	N/A
4.36	Hemispheric-Shaped Objects	N/A
4.37	Yo Yo Elastic Tether Toys	N/A
4.38	Magnets	N/A
4.39	Jaw Entrapment in Handles and Steering Wheels	N/A
4.40	Expanding Materials	N/A



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RESULTS:

LABELING AND INSTRUCTIONAL REQUIREMENT (ASTM F963-17)

Section	Requirement	Result
5.4 & 5.3	Aquatic Toys	N/A
5.5 & 5.3	Crib and Playpen Toys	N/A
5.6 & 5.3	Mobiles	N/A
5.7 & 5.3	Stroller and Carriage Toys	N/A
5.8 & 5.3	Toys Intended to be Assembled by an Adult	M
5.9 & 5.3	Simulated Protective Devices	N/A
5.10 & 5.3	Toys with Functional Sharp Edges or Sharp Points	N/A
5.11	Small Objects, Small Balls, Marbles and Balloons (16 CFR 1500.19)	N/A
5.12	Toy Caps (16CFR1500.86)	N/A
5.13	Art Materials (16 CFR 1500.14(b)(8))	N/A
5.15	Battery-Operated Toys (exclude 5.15.1 and 5.15.2)	N/A
5.15.1 & 5.3	Battery-Powered Ride-On Toys	N/A
5.15.2 & 5.3	Button or Coin Cell Batteries	N/A
5.16	Promotional Materials	M
5.17 & 5.3	Magnets	N/A
6.1	Definition and Description	M
6.2	Crib and Playpen Toys	N/A
6.3	Mobiles	N/A
6.4 & 5.3	Toys Intended to be Assembled by an Adult	N/A
6.5	Battery-Operated Toys	N/A
6.6	Battery-Powered Ride-On Toys	N/A
6.7	Toys in Contact with Food	N/A
7.1	Producer's Name and Address	M
7.2	Battery-Powered Ride-on Toys	N/A

M = Meet NM = Not Meet N/A = Not Applicable R = Refer to Comment Section

FLAMMABILITY (16 CFR SECTION 1500.3(c)6)(vi))

Requirement	Test Method Reference	Findings
Burn rate no greater than 0.1 of an inch per second	16 CFR 1500.44	Did not ignite.



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RESULTS:

APPROPRIATE AGE GRADE DETERMINATION

The Appropriate Age Grade is recommended with reference to the Toys: Age Classification Guidelines (1998-01-13) of the Product Safety Bureau, Health Canada.

Note: The most stringent age grade from the Labeled Age Grade and the Appropriate Age Grade will be used for testing.

Note: If the client does not specify an age grade for testing or request Bureau Veritas Consumer Products Services, Inc. to determine an appropriate age grade, the labeled age grade will be used for testing.



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RESULTS:

CANADA CONSUMER PRODUCT SAFETY ACT, TOYS REGULATIONS, SOR/2011-17

Section	Parameter / Requirement	Result
Mechanical	Hazards	
4	Flexible film bag used for package	M
7	Small Toys and Detachable component	NA
8	Metal edge	NA
9	Wires frames	NA
10	Plastic Edges	NA
11	Wood	M
12	Glass	NA
13	Nails and fasteners	M
14	Safety stops/Locking Device for Folding product	NA
15 (a, b)	Moving Mechanism	NA
15 (c)	Non- Detachable Winding Key Clearance	NA
15 (d)	Detachable Key	NA
16	Projectile Toy	NA
17	Enclosures	NA
18	Stability	NA
19	Auditory hazards	NA
Specific Pro	ducts - Dolls, Plush Toys and Soft Toys	
28	Exposed Sharp Points and Edges	NA
29. (a)	Stuffing Materials shall be clean and free from vermin	NA
29. (b)	Stuffing Materials shall be free from hard and sharp foreign matter	NA
30	Squeaker, Reed and Valve	NA
31	Eyes and Nose	NA
Specific Pro	ducts	
35*&36*	Plant seeds	NA
37	Pull and Push toys	NA
38*	Toys Steam engine Boilers	NA
39*	Finger Paints	NA
40(a)	Rattles – Sharp wire	NA
40(b, c)	Rattles – Impaction	NA
41	Elastic	NA
42	Yo-Yo type balls	NA
43	Magnetic force	NA
44	Educational experimental kit - Labeling	NA



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RESULTS:

CANADA CONSUMER PRODUCT SAFETY ACT, SCHEDULE 2

Section	Parameter / Requirement	Result
Mechanical H	lazards	
1*	Jequirity Beans	М
8*	Kites	NA
9	Kite strings	NA
14*	Lawn, darts with elongated tips	NA

M = Meet NM = Not Meet NA = Not Applicable R = Refer to Comment Section *= Non-accreditated section

FLAMMABILITY OF CELLULOSE NITRATE TOY REGULATIONS SOR/2011-17 SECTION 21

Requirement Reference	Observation	Flammability Classification
Section 21	No Flash Effect	М

M = Meet NM-See comment = Not Meet - Refer to Comment Section NA = Not Applicable



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RESULTS:

APPROPRIATE AGE GRADE DETERMINATION

The Appropriate Age Grade is determined with reference to the EN71: Part 1: 2014 +A1:2018, CEN ISO/TR 8124-8:2016 Safety of toys - Part 8: Age Determination Guidelines prepared by Technical Committee CEN/TC 52 and Age Grade Determination Guidelines of the Consumer Product Safety Commission (CPSC).

Note: The most stringent age grade from the Labeled Age Grade and the Appropriate Age Grade will be

used for testing.

Note: If the client does not specify an age grade for testing or request Bureau Veritas Consumer

Products Services, Inc. to determine an appropriate age grade, the labeled age grade will be used

for testing.

EXPLANATION OF THE ABBREVIATIONS FOR PART 1, 2 & 6

Symbol	Explanation					
NM	The sample(s) DOES	NOT MEET	Γ the requirement of this ${\sf S}$	ubclause		
M	The sample(s) MEETS	S the requir	ement of this Subclause			
N/A	Not Applicable					
NR	Not Requested					
NE	Not Evaluated					
NT	Not Tested					
NP	None Present					
Р	Present					
R	Refer to Comment Section of this report					
Symbol	Language Present	Symbol	Language Present	Symbol	Language Present	
В	Belgian language	Belgian language G German language PR Portuguese language				
D	Danish language GR Greek language S Spanish language					
E	English language H Dutch language SD Swedish language					
F	Finnish language I Italian language SZ Swiss language					
FR	French language	N	Norwegian language			



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RESULTS:

MECHANICAL & PHYSICAL PROPERTIES (EN 71: PART 1 – 2014+A1 – 2018)

Subclause	Requirement	Result
4.1	Material cleanliness	М
4.2	Assembly	М
4.3	Flexible plastic sheeting	М
4.4	Toy Bags	NA
4.5	Glass	NA
4.6	Expanding materials	NA
4.7 & 7.6	Edges	М
4.8 & 7.6	Points and metallic wires	М
4.8e	Splinters	М
4.9	Protruding parts	NA
4.10.1	Folding and sliding mechanisms	NA
4.10.2	Driving mechanisms	NA
4.10.3	Hinges	NA
4.10.4	Springs	NA
4.11	Mouth actuated toys and other toys intended to be put in the mouth	NA
4.12 & 7.3	Balloons	NA
4.13 & 7.9	Cord of toy kites and other flying toys	NA
4.14.1	Toys which a child can enter	NA
4.14.2 & 7.8	Masks and helmets	NA
4.15.1	Toys propelled by child	
4.15.1.2 & 7.10.1 & 7.10.2 & 7.10.3 & 7.10.4 & 7.16	Toys propelled by child – Instructions for use	NA
4.15.1.3	Toys propelled by child – Strength	NA
4.15.1.4	Toys propelled by child – Stability	NA
4.15.1.5	Toys propelled by child – Braking	NA
4.15.1.6	Toys propelled by child - Transmission	NA
4.15.1.7	Toys propelled by child – insertion mark	NA
4.15.1.8	Electrically-driven ride-on toys	NA
4.15.2	Toy bicycles	
4.15.2.2 & 7.15	Toy bicycles – Warnings and instructions for use	NA
4.15.2.3	Toy bicycles – Braking	NA
4.15.3 & 7.16 & 7.19	Rocking horses and similar toys	NA
4.15.4 & 7.16	Toys not propelled by child	NA
4.15.5 & 7.18	Toy scooters	NA
4.16	Heavy immobile toys	NA
4.17.2	All projectiles	NA
4.17.3 & 7.7	Projectile toys with stored energy	NA
4.17.4 & 7.26	Certain projectiles toys without stored energy	NA
4.18 & 7.4	Aquatic toys and inflatable toys	NA



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RESULTS:

MECHANICAL & PHYSICAL PROPERTIES (EN 71: PART 1 – 2014+A1 – 2018)

Subclause	Requirement	Result
4.19 & 7.13 & 7.14	Percussion caps	NA
4.20.2.1- 4.20.2.8, 4.20.2.10, 4.20.2.12	Acoustics	NA
4.20.2.9, 4.20.2.11 & 7.14	Acoustics – percussion toys & cap-firing toys	NA
4.21	Toys containing a non-electrical heat source	NA
4.22 & 7.2	Small balls	NA
4.23	Magnet	
4.23.2 a, b & c	Toy other than magnetic / electrical experimental sets intended for children over 8 years	NA
4.23.3 & 7.20	Magnetic / electrical experimental sets intended for children over 8 years	NA
4.24	Yo-yo ball	NA
4.25	Toys attached to food	NA
4.26	Toy Disguise Costumes	NA
4.27.1	Flying toys – General	NA
4.27.2 & 7.25.1	Rotors and propellers on flying toys	NA
4.27.3 & 7.25.2	Rotors and propellers on remote controlled flying toys	NA
	FOR TOYS INTENDED FOR CHILDREN UNDER 36 MONTHS	
5.1	General	NA
5.1a	Small parts – as received	NA
5.1b	Small parts, sharp points, sharp edges – after tests	NA
5.1c	Cross section <2mm metal points & wires	NA
5.1e	Toys contain glue	NA
5.1f	Casing of toys	NA
5.2	Fillings, coverings and seams	NA
5.3	Adhesion of plastic sheeting	NA
5.4.2	Cords and chains in toys intended for children under 18 months	NA
5.4.3 & 7.22	Cords and chains in toys intended for children of 18 months or over but under 36 months	NA
5.4.4	Fixed loops, tangled loops and nooses	NA
5.4.5	Cords and chains on pull along toys	NA
5.4.6 & 7.21	Electrical cables	NA
5.4.7	Cross-sectional dimension of certain cords	NA
5.4.8	Self-retracting cords	NA
5.4.9 & 7.11 & 7.23	Toys attached to or intended to be strung across a cradle, cot or perambulator	NA
5.5 & 7.12	Liquid filled toys	NA
5.6	Electrically driven toys	NA
5.7	Glass and porcelain	NA



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RESULTS:

MECHANICAL & PHYSICAL PROPERTIES (EN 71: PART 1 – 2014+A1 – 2018)

Subclause	Requirement	Result
5.8	Shape and size	NA
5.9 & 7.17	Monofilament fibres	NA
5.10	Small balls	NA
5.11	Play figures	NA
5.12	Hemispheric shaped toys	NA
5.13	Suction cups	NA
5.14	Straps intended to be worn fully or partially around the neck	NA
5.15 & 7.24	Sledges with cords for pulling	NA
6	Packaging	M
	WARNINGS, INSTRUCTIONS FOR USE	
7.1	General	М
7.2	Toys not intended for children under 36 months	M
7.5	Functional toys	NA

2009/48/EC GENERAL LABELING REQUIREMENT

Requirement	Result
CE Mark	M
Manufacturer/ Importer name and address	M
Product Identification	M

M = Meet NM = Not Meet N/A = Not Applicable R = Refer to Comment Section



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RESULTS:

FLAMMABILITY (EN 71 PART 2: 2011 + A1: 2014)

Subclause	Requirement	Result
4.1	Cellulose nitrate	NP
4.1	Surface flash on a piled surface	NA
4.1	Flammable gases	NA
4.1	Extremely flammable liquids, highly flammable liquids, flammable liquids and flammable gels	NA
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended to be worn by child in play	NA
4.3	warning on product and packaging (10 - 30 mm/s)	NA
4.4	Toys intended to be entered by a child	NA
4.4	warning on product and packaging (10 – 30 mm/s)	NA
4.5	Soft-filled toys	NA

REQUIREMENTS & TEST METHODS CROSS REFERENCE TABLE FOR PART 2

Sub- clause	Test Method	Sub- clause	Test Method	Sub- clause	Test Method	Sub- clause	Test Method
4.2.2	5.2	4.2.4	5.3	4.3	5.4	4.5	5.5
4.2.3	5.3	4.2.5	5.4	4.4	5.4	-	-



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RESULTS:

APPROPRIATE AGE GRADE DETERMINATION

The Appropriate Age Grade is determined with reference to the Age-grading guidelines of the Annex A of the AS/NZS Standard, "Safety of toys", AS/NZS 8124: Part 1: 2019

Note: The most stringent age grade from the Labeled Age Grade and the Appropriate Age Grade will be

used for testing.

Note: If the client does not specify an age grade for testing or request Bureau Veritas Consumer

Products Services, Inc. to determine an appropriate age grade, the labeled age grade will be used

for testing.



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RESULTS:

MECHANICAL & PHYSICAL PROPERTIES - (AS/NZS 8124.1:2016)

Subclause	Requirement	Result
4.1	Normal use	М
4.2	Reasonably foreseeable abuse	М
4.3	Material	-
4.3.1	Material quality	М
4.3.2	Expanding materials	N/A
4.4	Small parts	-
4.4.1	Small parts (under 36 months)	N/A
4.4.2	Small parts warning (36 months and over but under 72 months)	N/A
4.5	Shape, size and strength of certain toys	-
4.5.1	Squeeze toys, rattles, fasteners, and certain other toys and components of toys	N/A
4.5.2a	Small ball (under 36 months)	N/A
4.5.2b	Small ball warning (36 months and over but under 96 months)	N/A
4.5.3	Pompoms	N/A
4.5.4	Pre-school play figures	N/A
4.5.5	Toy pacifiers	N/A
4.5.6	Balloons Warning	N/A
4.5.7	Marbles Warning	N/A
4.5.8	Hemispheric-shaped toys	N/A
4.6	Edges	-
4.6.1	Accessible sharp edges of glass or metal	М
4.6.2	Functional sharp edges warning	N/A
4.6.3	Edges on metal toys	N/A
4.6.4	Edges on moulded toys	N/A
4.6.5	Edges on exposed bolts or threaded rods	N/A
4.7	Points	-
4.7.1	Accessible sharp points	М
4.7.2	Functional sharp points warning	N/A
4.7.3	Wooden toys	М
4.8	Projections	-
4.8.1	General	N/A
4.8.2	Special considerations for bath toy projections	-
4.9	Metal wires and rods	-
4.9a	Metal wires and rods intended to be bent	N/A
4.9b	Metal wires and rods likely to be bent	N/A
4.9c	End of spokes	N/A
4.10	Plastic film or plastic bags in packaging and in toys	М
4.11	Cords and elastics	-
4.11.1	Cords and elastics (under 18 months)	N/A
4.11.2	Self-retracting pull cords (under 18 months)	N/A
4.11.3	Cords for pull toys (under 36 months)	N/A
4.11.4	Cords on toy bags	N/A



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RESULTS:

MECHANICAL & PHYSICAL PROPERTIES - (AS/NZS 8124.1:2016)

Subclause	Requirement	Result
4.11.5	Crib or playpen toys and mobiles warning & instruction for use	N/A
4.11.6	Crib gyms and similar toys warning & instruction for use	N/A
4.11.7	Cords, strings and lines for flying toys	N/A
	Warning - Toy kites and other flying toys with cord	N/A
4.12	Folding mechanisms	-
4.12.1	Toy pushchairs, perambulators and similar toys	N/A
4.12.2	Other toys with folding mechanisms	N/A
4.12.3	Hinge-line clearance	N/A
4.13	Holes, clearances and accessibility of mechanisms	-
4.13.1	Circular holes in rigid materials (under 60 months)	M
4.13.2	Accessible clearances for movable segments (under 96 months)	N/A
4.13.3	Chains or belts in ride-on toys	N/A
4.13.4	Other driving mechanisms	N/A
4.13.5	Winding keys (under 36 months)	N/A
4.14	Springs	N/A
4.15	Stability and overload requirements	-
4.15.1	Stability of ride-on toys and seats (under 60 months)	-
4.15.1.1	Sideways stability, feet available for stabilization	N/A
4.15.1.2	Sideways stability, feet unavailable for stabilization	N/A
4.15.1.3	Fore and aft stability	N/A
4.15.2	Overload requirements for ride-on toys and seats	N/A
4.15.3	Stability of stationary floor toys	N/A
4.16	Enclosures	-
4.16.1	Ventilation	N/A
4.16.2	Closures	-
4.16.2.1	Lids, doors and similar devices	N/A
4.16.2.2	Lid support for toy chests and similar toys	N/A
	Instruction for assembly	N/A
4.16.3	Toys that enclose the head	N/A
4.17	Simulated protective equipment	N/A
	Warning	N/A
4.18	Projectile toys	-
4.18.1	General	-
4.18.2	Projectiles	N/A
4.18.3	Projectile toys with stored energy	N/A
	Instruction for use	N/A
4.18.4	Projectile toys without stored energy	N/A
	Instruction for use	N/A
4.19	Rotors and propellers	N/A
4.20	Aquatic toys	N/A
	Warning	N/A
4.21	Braking	N/A



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RESULTS:

MECHANICAL & PHYSICAL PROPERTIES - (AS/NZS 8124.1:2016)

Subclause	Requirement	Result
4.22	Toy bicycles	-
4.22.1	Toy bicycles – Instruction for use	N/A
4.22.2	Toy bicycles – Maximum saddle height	N/A
4.22.3	Toy bicycles – Braking requirements	N/A
4.23	Speed limitation of electrically driven ride-on toys	N/A
4.24	Toys containing a heat source	N/A
4.25	Liquid-filled toys	N/A
	Warning	N/A
4.26	Mouth-actuated toys	N/A
4.27	Toy roller skates, toy inline skates and toy skateboards	N/A
	Warning	N/A
4.28	Percussion caps	N/A
	Warning	N/A
4.29	Acoustic requirement	N/A
	Warning	N/A
4.30	Toy scooters	N/A
4.31	Magnets and magnetic components	-
4.31.1	Magnetic/electrical experimental sets (for children 8 years and over)	N/A
	Warning	N/A
4.31.2	All other toys with magnets and magnetic components (under 8 years)	-
4.31.2 a	Loose-as-received magnet(s) and magnetic component(s)	N/A
4.31.2 b	Wooden toys, toys intended in water and mouth pieces of mouth-actuated toys with magnets or magnetic components	N/A
4.31.2 c	Magnet(s) and magnetic component(s) liberated from toy	N/A

M = Meet NM = Not Meet N/A = Not Applicable R = Refer to Comment Section



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RESULTS:

MECHANICAL & PHYSICAL PROPERTIES - (AS/NZS ISO 8124.1:2019)

Subclause	Requirement	Result
4.1	Normal use	М
4.2	Reasonably foreseeable abuse	М
4.3	Material	М
4.4	Small parts	NA
4.5	Shape, size and strength of certain toys	NA
4.6	Edges	М
4.7	Points	М
4.8	Projections	NA
4.9	Metal wires and rods	NA
4.10	Plastic film or plastic bags in packaging and in toys	М
4.11	Cords	NA
4.12	Folding mechanisms	NA
4.13	Holes, clearances and accessibility of mechanisms	M
4.14	Springs	NA
4.15	Stability and overload requirements	NA
4.16	Enclosures	NA
4.17	Simulated protective equipment	NA
4.18	Projectile toys	NA
4.19	Rotors and propellers	NA
4.20	Aquatic toys	NA
4.21	Braking	NA
4.22	Toy bicycles	NA
4.23	Speed limitation of electrically driven ride-on toys	NA
4.24	Toys containing a heat source	NA
4.25	Liquid-filled toys	NA
4.26	Mouth-actuated toys	NA
4.27	Toy roller skates, toy inline skates and toy skateboards	NA
4.28	Percussion caps specifically designed for use in toys	NA
4.29	Acoustic requirement	NA
4.30	Toy scooters	NA
4.31	Magnets and magnetic components	NA
4.32	Yo-yo balls	NA
4.33	Straps intended to be worn fully or partially around the neck	NA
4.34	Sledges and toboggans with cords for pulling	NA
4.35	Jaw entrapment in handles and steering wheels	NA



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RESULTS:

FLAMMABILITY (AS/NZS 8124.2: 2016)

Subclause	Requirement	Result
4.1	Celluloid (cellulose nitrate)	NP
4.1	Surface flash on a piled surface	NA
4.1	Flammable Gases	NA
4.1	Extremely flammable liquids, highly flammable liquids, flammable liquids and flammable gels	NA
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended to be worn by a child in play	NA
4.3	warning on product and packaging (10 - 30 mm/s)	NA
4.4	Toys intended to be entered by a child	NA
4.4	warning on product and packaging (10 - 30 mm/s)	NA
4.5	Soft - filled toys	NA

M = Meet NM = Not Meet N/A = Not Applicable R = Refer to Comment Section P = Present NP = Not Present



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RESULTS:

CLIENT'S 17 PHTHALATES CONTENT SPECIFICATION

BBP/DBP/DEHP/DNOP/DINP/DIDP Content

	Color / Component	Location	Style
A.	Composite of Clear red plastic Bright clear plastic Clear plastic	Backboard Mirror Board	A B D,E
B.	Bright red coating	Bright red paint (A1Y)	A,B,D,E
C.	Dark green coating	Dark green paint (A5Y)	A,B,D,E
D.	Dark blue coating	Dark blue paint (A7Y)	A,B,D,E
E.	Clear lacquer	Clear lacquer paint (A21Y)	A-G

Test Parameter	BBP	DBP	DEHP	DNOP	DINP	DIDP	
Limit (%)	0.1	0.1	0.1	0.1	0.1	0.1	
Sample		Result (%)					Conclusion
Α	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	Pass
В	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	Pass
С	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	Pass
D	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	Pass
E	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	Pass

Detection Limit:

DNOP = Di-n-octyl phthalate (0.005%) 117-84-0

DINP p

DIDP = Di-iso-decyl phthalate (0.005%) 26761-40-0 /

68515-49-1

BBP = Butyl benzyl phthalate (0.005%) 85-68-7 DBP = Dibutyl phthalate (0.005%) 84-74-2

DEHP = Di(2-ethylhexyl) phthalate (0.005%) 117-81-7

Results reported in percentage

LT = Less than
ND = None detected



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RESULTS:

CLIENT'S 17 PHTHALATES CONTENT SPECIFICATION

EC No. 201-559-5 / DiBP / DHNUP / DIHP / DMEP / DIPP / DnPP / DPP / PiPP / DHP / 1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear **Content**

Test Parameter	EC No. 201- 559-5	DiBP	DHNUP	DIHP	DMEP	DIPP	
Limit (%)	0.1	0.1	0.1	0.1	0.1	0.1	
Sample							Conclusion
А	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	Pass
В	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	Pass
С	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	Pass
D	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	Pass
Е	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.005	Pass

Test Parameter	DnPP	DPP	PiPP	DHP	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	
Limit (%)	0.1	0.1	0.1	0.1	0.1	
Sample						Conclusion
Α	LT 0.005	Pass				
В	LT 0.005	Pass				
С	LT 0.005	Pass				
D	LT 0.005	Pass				
Е	LT 0.005	Pass				



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RESULTS:

Results reported in percentage LT = Less than ND = None detected

Detection Limit:

DiBP = Diisobutylphthalate 84-69-5

DHNUP = 1,2-Benzenedicarboxylic acid,di-C7,11-

branched and linear alkyl esters 68515-42-4

DIHP = 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich 71888-89-6

= Dimethoxyethyl phthalate 117-82-8 **DMEP** DIPP = Diisopentylphthalate 605-50-5 **DnPP** = Dipentylphthalate 131-18-0

DPP= 1,2-benzenedicarboxylic acid dipentylester,

branched and linear 84777-06-0

PiPP = n-Pentyl-Isopentylphthalate 776297-69-9

= Dihexylphthalate 84-75-3 DHP

1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear 68515-50-4

EC No. 201-559-5 = 1,2-benzenedicarboxylic acid, di-C6-

10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate

68515-51-5/68648-93-1



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RESULTS:

PHTHALATES CONTENT IN CHILDREN'S TOYS AND CHILD CARE ARTICLES (Consumer Product Safety Improvement Act (CPSIA) of 2008, Section 108(a) and 108(c), 16 CFR 1307)

Test Method: With reference to U. S. CPSC-CH-C1001-09.3 (April 1, 2010) / CPSC-CH-C1001-09.4 (January 17, 2018).

Sample Identity	Color / Component	Location	Style
A.	Clear red plastic Bright clear plastic Clear plastic	Backboard Mirror Board	A B D,E
B.	Bright red coating	Bright red paint (A1Y)	A,B,D,E
C.	Dark green coating	Dark green paint (A5Y)	A,B,D,E
D.	Dark blue coating	Dark blue paint (A7Y)	A,B,D,E
E.	Clear lacquer	Clear lacquer paint (A21Y)	A-G

Test Parameter:	Listed Phthalates (See Remark)						
Requirement:		Each 0.1%					
Sample ID	Detected Analyte	Detected Analyte Concentration (%)					
A.	ND	ND	Pass				
B.	ND	ND	Pass				
C.	ND	ND	Pass				
D.	ND	ND	Pass				
E.	ND	ND	Pass				

Results reported in percentage ND = None detected

Detection Limit: Each Phthalate (0.005%)

LIST OF RESTRICTED PHTHALATES					
Number	Chemical Name	CAS Number			
1.	Butyl benzyl phthalate (BBP)	85-68-7			
2.	Dibutyl phthalate (DBP)	84-74-2			
3.	Di(2-ethylhexyl) phthalate (DEHP)	117-81-7			
4.	Di-iso-nonyl phthalate (DINP)	28553-12-0 & 68515-48-0			
5.	Di-iso-butyl phthalate (DIBP)	84-69-5			
6.	Di-n-pentyl phthalate (DPENP or DnPP)	131-18-0			
7.	Di-n-hexyl phthalate (DHEXP or DnHP)	84-75-3			
8.	Dicyclohexyl phthalate (DCHP)	84-61-7			



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RESULTS:

BBP/DBP/DEHP CONTENTS IN TOYS AND CHILDCARE ARTICLES (European Regulation (EC) No. 1907/2006 REACH Annex XVII, Item no. 51)

Test Method: With referenced to EN 14372:2004 Section 6.3.2, sample was extracted with organic solvent and

then analyzed by Gas Chromatograph Mass Spectrometer

Sample Identity	Test Component	Location	Style
A.	Clear red plastic Bright clear plastic Clear plastic	Backboard Mirror Board	A B D,E
B.	Bright red coating	Bright red paint (A1Y)	A,B,D,E
C.	Dark green coating	Dark green paint (A5Y)	A,B,D,E
D.	Dark blue coating	Dark blue paint (A7Y)	A,B,D,E
E.	Clear lacquer	Clear lacquer paint (A21Y)	A-G

Test Parameter:	BBP	DBP	DEHP Sum of three phthalates		
Limit (%):	0.1	0.1	0.1	0.1	
Sample		Re	esult (%)		Conclusion
A.	LT 0.005	LT 0.005	LT 0.005	LT 0.015	Pass
B.	LT 0.005	LT 0.005	LT 0.005	LT 0.015	Pass
C.	LT 0.005	LT 0.005	LT 0.005	LT 0.015	Pass
D.	LT 0.005	LT 0.005	LT 0.005	LT 0.015	Pass
E.	LT 0.005	LT 0.005	LT 0.005	LT 0.015	Pass

Detection Limit:

 $\begin{array}{lll} BBP & = \textit{Butyl benzyl phthalate } (0.005\%) & \textit{Results reported in percentage} \\ DBP & = \textit{Dibutyl phthalate } (0.005\%) & \textit{LT} & = \textit{Less than} \\ DEHP & = \textit{Di(2-ethylhexyl) phthalate } (0.005\%) & \textit{ND} & = \textit{None detected} \\ \end{array}$



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RESULTS:

DNOP/DINP/DIDP CONTENTS IN TOYS AND CHILDCARE ARTICLES WHICH CAN BE PLACED IN MOUTH BY THE CHILDREN (European Regulation (EC) No. 1907/2006 REACH Annex XVII, Item no. 52)

With referenced to EN 14372:2004 Section 6.3.2, sample was extracted with organic solvent and Test Method:

then analyzed by Gas Chromatograph Mass Spectrometer

Sample Identity	Test Component	Location	Style
A.	Clear red plastic Bright clear plastic Clear plastic	Backboard Mirror Board	A B D,E
B.	Bright red coating	Bright red paint (A1Y)	A,B,D,E
C.	Dark green coating	Dark green paint (A5Y)	A,B,D,E
D.	Dark blue coating	Dark blue paint (A7Y)	A,B,D,E
E.	Clear lacquer	Clear lacquer paint (A21Y)	A-G

Test Parameter:	DNOP	DINP	DIDP	Sum of three phthalates	
Limit (%):	0.1	0.1	0.1	0.1	
Sample		Res	sult (%)		Conclusion
A.	LT 0.005	LT 0.005	LT 0.005	LT 0.015	Pass
B.	LT 0.005	LT 0.005	LT 0.005	LT 0.015	Pass
C.	LT 0.005	LT 0.005	LT 0.005	LT 0.015	Pass
D.	LT 0.005	LT 0.005	LT 0.005	LT 0.015	Pass
E.	LT 0.005	LT 0.005	LT 0.005	LT 0.015	Pass

Detection Limit:

DNOP = Di-n-octyl phthalate (0.005%) = Di-iso-nonyl phthalate (0.005%) DINP DIDP

= Di-iso-decyl phthalate (0.005%)

Results reported in percentage

LT = Less than ND = None detected



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RESULTS:

BBP/DBP/DEHP/DIBP CONTENTS (European Regulation (EC) No. 1907/2006 REACH Annex XVII, Item no. 51 (amended up to EU No. 2018/2005))

Test Method: With referenced to EN 14372:2004 Section 6.3.2, sample was extracted with organic solvent and

then analyzed by Gas Chromatograph Mass Spectrometer

Sample Identity	Test Component	Location	Style
A.	Clear red plastic Bright clear plastic Clear plastic	Backboard Mirror Board	A B D,E
B.	Bright red coating	Bright red paint (A1Y)	A,B,D,E
C.	Dark green coating	Dark green paint (A5Y)	A,B,D,E
D.	Dark blue coating	Dark blue paint (A7Y)	A,B,D,E
E.	Clear lacquer	Clear lacquer paint (A21Y)	A-G

Test Parameter:	BBP	DBP	DEHP	DIBP	Sum of four phthalates	
Limit (%):	0.1	0.1	0.1	0.1	0.1	
Sample			Result (%)			Conclusion
A.	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.020	Pass
B.	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.020	Pass
C.	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.020	Pass
D.	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.020	Pass
E.	LT 0.005	LT 0.005	LT 0.005	LT 0.005	LT 0.020	Pass

Detection Limit:

BBP = Butyl benzyl phthalate (0.005%)

DBP = Dibutyl phthalate (0.005%)
DEHP = Di(2-ethylhexyl) phthalate (0.005%)
DIBP = Diisobutyl phthalate (0.005%)

Results reported in percentage

LT = Less than ND = None detected



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RESULTS:

DIBP CONTENT IN TOYS (2009/48/EC and its amendments, Annex II, Part III, Point 3)

Tes	t Parameter:	DIBP			
Limi	t (%):	0.3			
	Color / Component	Result (%)	Conclusion		
A.	Bright red coating	Bright red paint (A1Y)	A,B,D,E	LT 0.005	Pass
B.	Dark green coating	Dark green paint (A5Y)	A,B,D,E	LT 0.005	Pass
C.	Dark blue coating	Dark blue paint (A7Y)	A,B,D,E	LT 0.005	Pass
D.	Clear lacquer	Clear lacquer paint (A21Y)	A-G	LT 0.005	Pass

Remark:

DIBP (CAS No: 84-69-5) = Diisobutyl phthalate

Results reported in percentage

ND = None detected

Detection Limit: Each Phthalate (0.005%)

TOTAL LEAD CONTENT IN SURFACE COATING BY COMPOSITE TESTING ("Ban of Lead-containing paint and certain consumer products bearing Lead-containing paint", Consumer Product Safety Improvement Act (CPSIA) of 2008)

Test Method: U.S. CPSC-CH-E1003.09.1:2011

Elei	ment:	Lead				
Rec	uirement: Maximum allowable lir	90 mg/kg				
	Sample D	escription (Result (mg/kg)	Conclusion
Color / Component Location St			Style	Overall	Potential	
(A)	Bright red coating	Bright red paint (A1Y)	A,B,D,E	LT 10	-	Pass
(B)	Dark green coating	Dark green paint (A5Y)	A,B,D,E	LT 10		Pass
(C)	Dark blue coating	Dark blue paint (A7Y)	A,B,D,E	LT 10		Pass
(D)	Clear lacquer	Clear lacquer paint (A21Y)	A-G	LT 10		Pass

LT = Less Than
* = Average of duplicate analyses

mg/kg = milligrams per kilogram (ppm = parts per million)
Potential = Estimated lead content per component is based on
calculation by component individual weight



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RESULTS:

TOTAL LEAD CONTENT IN SUBSTRATE BY COMPOSITE TESTING (100PPM) (Consumer Product Safety Improvement Act (CPSIA) of 2008)

Test Method: U.S. CPSC-CH-E1001-08.3:2012 or U.S. CPSC-CH-E1002-08.3:2012

Analyte	Lead	
Requirement: Maximum allowable limit:	100 mg/kg	

Ana	yte	Lead (Pb)			
	Sampl	Result	Conclusion		
	Color / Component	Location	Style	(mg/kg)	
(A)	Clear red plastic	Backboard	Α	LT 10	Pass
	Bright clear plastic	Mirror	В		
	Clear plastic	Board	D,E		
(B)	Silvery metal	Long hexgon screw	A,C	LT 10	Pass
(C)	Soft silvery metal	Mid hexgon screw	A,B,D,E	LT 10	Pass
(D)	Flat silvery metal	Long nut	A,B,D,E	LT 10	Pass
(E)	Bright silvery metal	Big hexgon screw	A,B,D,E	LT 10	Pass
(F)	Light silvery metal	Short nut	A,B,D,E	LT 10	Pass
(G)	Dull silvery metal	Screw	С	LT 10	Pass
(H)	Matt silvery metal	Holder of screw	C,F,G	LT 10	Pass

mg/kg = milligrams per kilogram (ppm = parts per million)

LT = Less Than
* = Average of duplicate analyses



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RESULTS:

HEAVY METALS CONTENT IN SURFACE COATING (Canada Consumer Product Safety Act - Toys Regulations, SOR/2011-17 Sec. 23 with Amendment in SOR/2016-195)

Sample Identity	Color	Location	Style
(A)	Bright red coating	Bright red paint (A1Y)	A,B,D,E
(B)	Dark green coating	Dark green paint (A5Y)	A,B,D,E
(C)	Dark blue coating	Dark blue paint (A7Y)	A,B,D,E
(D)	Clear lacquer	Clear lacquer paint (A21Y)	A-G

Analyte		As	Ва	Cd	Hg	Pb	Sb	Se	
Maximum	(T)	-	-	-	ND	90	-	-	
Limit (mg/kg)	(S)	1000	1000	1000	-	-	1000	1000	

Analy	te	As	Ва	Cd	Hg	Pb	Sb	Se	
	Method			Re	esult (mg/k	(g)			Conclusion
(A)	(T)	LT 10	LT 10	LT 10	ND	LT 10	LT 10	LT 10	PASS
	(S)	-	-	-	-	-	-	-	1 700
(B)	(T)	LT 10	LT 10	LT 10	ND	LT 10	LT 10	LT 10	DACC
	(S)	-	-	-	-	-	-	-	PASS
(C)	(T)	LT 10	LT 10	LT 10	ND	LT 10	LT 10	LT 10	PASS
	(S)	-	-	-	-	-	-	-	PASS
(D)	(T)	LT 10	12	LT 10	ND	LT 10	LT 10	LT 10	PASS
	(S)	-	-	-	-	-	-	-	FASS

mg/kg = milligrams per kilogram (ppm=parts per million)

*= Average of duplicate analysis

LT = Less Than

ND = Not detected (Detection Limit = 10 mg/kg)

As = Arsenic, Ba = Barium, Cd = Cadmium, Hg = Mercury, Pb = Lead, Sb = Antimony,

(T) = Total Analysis (With referenced to ASTM F963-17 Sec. 8.3)

Se = Selenium

(S) = Soluble analysis (Canada Product Safety Manual Book 5, Part-B, C-03 (2014))



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RESULTS:

TOTAL LEAD CONTENT (Canada Consumer Product Safety Act - Consumer Products Containing Lead Regulations SOR/2018-83)

Health Canada, Product Safety Laboratory, Reference Manual, Book 5 - Laboratory Policies and Procedures – Part B: Test Method Section, Method C-02.2:2017, C-02.3:2017 or C-02.4-2017 Test Method:

Analyte	Lead
Requirement: Maximum allowable limit:	90 mg/kg

Ana	lyte			Lead (Pb)	
	Sample D	Description		Result	Conclusion
	Color / Component	Location	Style	(mg/kg)	
(A)	Clear red plastic	Backboard	Α	LT 10	PASS
	Bright clear plastic	Mirror	B		
	Clear plastic	Board	D,E		
(B)	Silvery metal	Long hexgon screw	A,C	LT 10	PASS
(C)	Soft silvery metal	Mid hexgon screw	A,B,D,E	LT 10	PASS
(D)	Flat silvery metal	Long nut	A,B,D,E	LT 10	PASS
(E)	Bright silvery metal	Big hexgon screw	A,B,D,E	LT 10	PASS
(F)	Light silvery metal	Short nut	A,B,D,E	LT 10	PASS
(G)	Dull silvery metal	Screw	С	LT 10	PASS
(H)	Matt silvery metal	Holder of screw	C,F,G	LT 10	PASS
(I)	Bright red coating	Bright red paint (A1Y)	A,B,D,E	LT 10	PASS
(J)	Dark green coating	Dark green paint (A5Y)	A,B,D,E	LT 10	PASS
(K)	Dark blue coating	Dark blue paint (A7Y)	A,B,D,E	LT 10	PASS
(L)	Clear lacquer	Clear lacquer paint (A21Y)	A-G	LT 10	PASS

LT = Less Than

= Average of duplicate analyses

mg/kg =milligrams per kilogram (ppm=parts per million) ND=Not detected



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RESULTS:

SOLUBLE HEAVY METALS CONTENT IN SURFACE COATING (ASTM F963-17, Section 4.3.5.1(2))

Test Method: ASTM International Standard ASTM F963-17, Section 8.3.2 to 8.3.4

Sample Identity	Color	Location	Style
A.	Bright red coating	Bright red paint (A1Y)	A,B,D,E
B.	Dark green coating	Dark green paint (A5Y)	A,B,D,E
C.	Dark blue coating	Dark blue paint (A7Y)	A,B,D,E
D.	Clear lacquer	Clear lacquer paint (A21Y)	A-G

Analyte	As	Ва	Cd	Cr	Hg	Pb	Sb	Se
Maximum Limit (mg/kg)	25	1000	75	60	60	90	60	500
Analytical Correction	60%	30%	30%	30%	50%	30%	60%	60%

Analyte	As	Ва	Cd	Cr	Hg	Pb	Sb	Se	Mass of Trace Amount	Conclusion
Sample				Result	(mg/kg)				(g)	
A.	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	0.0856	PASS
B.	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	0.0666	PASS
C.	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	0.0580	PASS
D.	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	0.0806	PASS

LT = Less Than

CR = adjusted analytical result

mg/kg = milligrams per kilogram (ppm=parts per million)

* = Average of duplicate analysis

As = Arsenic, Ba = Barium, Cd = Cadmium,

Cr = Chromium, Hg = Mercury, Pb = Lead,

Sb = Antimony, Se = Selenium



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RESULTS:

SOLUBLE HEAVY METALS CONTENT IN SUBSTRATE (ASTM F963-17, Section 4.3.5.2(2)(b))

Test Method: ASTM International Standard ASTM F963-17, Section 8.3.5 (Excluding 8.3.5.5(3))

Sample Identity	Color	Location	Style
Type I: Subs	trate other than modeling clay		
Α	Clear red plastic	Backboard	Α
В	Bright clear plastic	Mirror	В
С	Clear plastic	Board	D,E
D	Light brown wood	Wooden board	A-G

Analyte	As	Ва	Cd	Cr	Hg	Pb	Sb	Se
Max. Limit Type I (mg/kg)	25	1000	75	60	60	90	60	500
Max. Limit Type II (mg/kg)	25	250	50	25	25	90	60	500
Analytical Correction	60%	30%	30%	30%	50%	30%	60%	60%

Analyte	As	Ва	Cd	Cr	Hg	Pb	Sb	Se	Mass of Trace Amount	Conclusion
Sample				Result	(mg/kg)				(g)	
Α	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2		PASS
В	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2		PASS
С	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2		PASS
D	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2		PASS

mg/kg = milligrams per kilogram (ppm=parts per million)

CR = adjusted analytical result

LT = Less Than

ND = None Detected

As = Arsenic, Ba = Barium, Cd = Cadmium, Cr = Chromium, Hg = Mercury, Pb = Lead,

Sb = Antimony, Se = Selenium

Detection limit (mg/kg): Each element 2

Remark:

Textiles (natural or synthetic) are exempted for lead content requirement according to clarification of Toy Industry Association for ASTM F963-17. The lead content analysis result of corresponding material herein is for client's reference only.



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RESULTS:

MIGRATION OF CERTAIN ELEMENTS (AS/NZS 8124 Part 3: 2012 with Amendment No. 1: 2016)

Test Method: Soluble heavy metals content analysis was determined by Inductively Coupled Plasma Spectrometry.

Sample Identity	Color / Component	Location	Style
Type II: Polyi	meric Materials		
A.	Clear red plastic	Backboard	А
B.	Bright clear plastic	Mirror	В
C.	Clear plastic	Board	D,E
Type I: Coati	ngs		
D.	Bright red coating	Bright red paint (A1Y)	A,B,D,E
E.	Dark green coating	Dark green paint (A5Y)	A,B,D,E
F.	Dark blue coating	Dark blue paint (A7Y)	A,B,D,E
G.	Clear lacquer	Clear lacquer paint (A21Y)	A-G
Type VI: Oth	er Materials Whether Mass Coloured	l Or Not	•
H.	Light brown wood	Wooden board	A-G



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RESULTS:

MIGRATION OF CERTAIN ELEMENTS (AS/NZS 8124 Part 3: 2012 with Amendment No. 1: 2016)

Test Method: Soluble heavy metals content analysis was determined by Inductively Coupled Plasma Spectrometry.

Analyte	As	Ba	Cd	Cr	Hg	Pb	Sb	Se
Max. Limit								
All except	_							
Type VIII	25	1000	75	60	60	90	60	500
(mg/kg)								
Max. Limit								
Type VIII	25	250	50	25	25	90	60	500
(mg/kg)	20	200	50	20	20	30	00	300
Analytical	60%	30%	30%	30%	50%	30%	60%	60%
Correction	00 /8	30 /8	30 /8	30 /6	30 /8	30 /8	00 /8	00 /8

Analyte	As	Ва	Cd	Cr	Hg	Pb	Sb	Se	Mass of Trace Amount	Conclusion
Sample				Result	(mg/kg)				(g)	
A.	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2		PASS
В.	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2		PASS
C.	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2		PASS
D.	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	0.0856	PASS
E.	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	0.0666	PASS
F.	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	0.0580	PASS
G.	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	0.0806	PASS
H.	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2		PASS

mg/kg = milligrams per kilogram (ppm=parts per million) CR = adjusted analytical result

LT = Less Than

As = Arsenic, Ba = Barium, Cd = Cadmium, Cr = Chromium, Hg = Mercury, Pb = Lead,

Sb = Antimony, Se = Selenium

^{* =} Average of duplicate analysis



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RESULTS:

MIGRATION OF CERTAIN ELEMENTS (European Standard EN 71 Part 3: 2013+A3:2018)

Test Method: European Standard EN 71 Part 3: 2013+A3:2018, Annex E.

Class: Category III - Scraped off toy material

Sample Identity	Color	Location	Style
A.	Clear red plastic	Backboard	А
B.	Bright clear plastic	Mirror	В
C.	Clear plastic	Board	D,E
D.	Bright red coating	Bright red paint (A1Y)	A,B,D,E
E.	Dark green coating	Dark green paint (A5Y)	A,B,D,E
F.	Dark blue coating	Dark blue paint (A7Y)	A,B,D,E
G.	Clear lacquer	Clear lacquer paint (A21Y)	A-G

	Requirement	Result (mg/kg)									
Analyte	(mg/kg)		Sample ID								
	Category III	A.	B.	C.	D.	E.	F.				
Aluminium (AI)	70000	LT 2	3	LT 2	LT 2	LT 2	LT 2				
Arsenic (As)	47	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2				
Boron (B)	15000	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2				
Barium (Ba)	18750	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2				
Cadmium (Cd)	17	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2				
Cobalt (Co)	130	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2				
Chromium III (Cr III)	460	LT 0.050	LT 0.050	LT 0.050	LT 0.05	0.23	LT 0.05				
Chromium VI (Cr VI)	0.2	L1 0.050	L1 0.050	L1 0.050	L1 0.05	#LT 0.002					
Copper (Cu)	7700	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2				
Mercury (Hg)	94	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2				
Manganese (Mn)	15000	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2				
Nickel (Ni)	930	LT 2	3	LT 2	LT 2	LT 2	LT 2				
Lead (Pb)	23	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2				
Antimony (Sb)	560	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2				
Selenium (Se)	460	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2				
Tin (Sn)	180000	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2				
Organic tin	12	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2				
Strontium (Sr)	56000	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2				
Zinc (Zn)	46000	LT 2	LT 2	LT 2	53	110	97				
Mass of trace am	ount (gram)				0.0856	0.0666	0.0580				
Conclusion		Pass	Pass	Pass	Pass	Pass	Pass				



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RESULTS:

MIGRATION OF CERTAIN ELEMENTS (European Standard EN 71 Part 3: 2013+A3:2018)

Test Method: European Standard EN 71 Part 3: 2013+A3:2018, Annex E.

Class: Category III - Scraped off toy material

	Requirement	Result (mg/kg)					
Analyte	(mg/kg)		Sample ID				
	Category III	G.					
Aluminium (Al)	70000	LT 2					
Arsenic (As)	47	LT 2					
Boron (B)	15000	LT 2					
Barium (Ba)	18750	LT 2					
Cadmium (Cd)	17	LT 2					
Cobalt (Co)	130	LT 2					
Chromium III (Cr III)	460	1.7.0.05					
Chromium VI (Cr VI)	0.2	LT 0.05					
Copper (Cu)	7700	LT 2					
Mercury (Hg)	94	LT 2					
Manganese (Mn)	15000	LT 2					
Nickel (Ni)	930	LT 2					
Lead (Pb)	23	LT 2					
Antimony (Sb)	560	LT 2					
Selenium (Se)	460	LT 2					
Tin (Sn)	180000	LT 2					
Organic tin	12	LT 2					
Strontium (Sr)	56000	LT 2					
Zinc (Zn)	46000	77					
Mass of trace am	Mass of trace amount (gram)						
Conclusion		Pass					

mg/kg = milligrams per kilogram (ppm=parts per million)

LT = Less Than

* = Average of duplicate analysis

FR = Failed Result

Organic tin = migration of total organic tin is expressed as tributyl tin cation content in mg/kg

= Verified results (see note)

Remark:

- Results of Cr III and Cr VI were reported as sum of soluble Chromium content unless specified.
- Result(s) of organic tin was (were) calculated while assuming the tin content wholly contributed from tributyltin cation unless specified.

Note:

If soluble chromium content or soluble tin content exceeded the screening limits of soluble chromium (VI) or organic tin content, the results were verified by below method

- Chromium VI: In house Ion-chromatography analysis.
- Organic tin: EN71 part 3:2013+A3:2018, Annex G by Gas Chromatography Mass Spectroscopy analysis.



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RESULTS:

MIGRATION OF CERTAIN ELEMENTS (European Standard EN 71 Part 3: 2019)

Test Method: European Standard EN 71 Part 3: 2019, Section 9.

Class: Category III - Scraped off toy material

Sample Identity	Color	Location	Style
A.	Clear red plastic	Backboard	А
B.	Bright clear plastic	Mirror	В
C.	Clear plastic	Board	D,E
D.	Bright red coating	Bright red paint (A1Y)	A,B,D,E
E.	Dark green coating	Dark green paint (A5Y)	A,B,D,E
F.	Dark blue coating	Dark blue paint (A7Y)	A,B,D,E
G.	Clear lacquer	Clear lacquer paint (A21Y)	A-G

	Requirement	Result (mg/kg)								
Analyte	(mg/kg)	Sample ID								
	Category III	A.	B.	C.	D.	E.	F.			
Aluminium (Al)	70000	LT 2	3	LT 2	LT 2	LT 2	LT 2			
Arsenic (As)	47	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2			
Boron (B)	15000	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2			
Barium (Ba)	18750	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2			
Cadmium (Cd)	17	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2			
Cobalt (Co)	130	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2			
Chromium III (Cr III)	460	LT 0.050	LT 0.050	LT 0.050	LT 0.05	0.23	LT 0.05			
Chromium VI (Cr VI)	0.053	L1 0.050	L1 0.050	L1 0.050	L1 0.05	#LT 0.002				
Copper (Cu)	7700	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2			
Mercury (Hg)	94	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2			
Manganese (Mn)	15000	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2			
Nickel (Ni)	930	LT 2	3	LT 2	LT 2	LT 2	LT 2			
Lead (Pb)	23	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2			
Antimony (Sb)	560	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2			
Selenium (Se)	460	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2			
Tin (Sn)	180000	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2			
Organic tin	12	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2			
Strontium (Sr)	56000	LT 2	LT 2	LT 2	LT 2	LT 2	LT 2			
Zinc (Zn)	46000	LT 2	LT 2	LT 2	53	110	97			
Mass of trace amount (gram)					0.0856	0.0666	0.0580			
Conclusion		Pass	Pass	Pass	Pass	Pass	Pass			



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RESULTS:

MIGRATION OF CERTAIN ELEMENTS (European Standard EN 71 Part 3: 2019)

Test Method: European Standard EN 71 Part 3: 2019, Section 9.

Class: Category III - Scraped off toy material

	Requirement	Result (mg/kg)					
Analyte	(mg/kg)		Sample ID				
	Category III	G.					
Aluminium (Al)	70000	LT 2					
Arsenic (As)	47	LT 2					
Boron (B)	15000	LT 2					
Barium (Ba)	18750	LT 2					
Cadmium (Cd)	17	LT 2					
Cobalt (Co)	130	LT 2					
Chromium III (Cr III)	460	1.7.0.05					
Chromium VI (Cr VI)	0.053	LT 0.05					
Copper (Cu)	7700	LT 2					
Mercury (Hg)	94	LT 2					
Manganese (Mn)	15000	LT 2					
Nickel (Ni)	930	LT 2					
Lead (Pb)	23	LT 2					
Antimony (Sb)	560	LT 2					
Selenium (Se)	460	LT 2					
Tin (Sn)	180000	LT 2					
Organic tin	12	LT 2					
Strontium (Sr)	56000	LT 2					
Zinc (Zn)	46000	77					
Mass of trace am	Mass of trace amount (gram)						
Conclus	Conclusion						

mg/kg = milligrams per kilogram (ppm=parts per million) LT = Less Than
* = Average of duplicate analysis FR = Failed Result

Organic tin = migration of total organic tin is expressed as tributyl tin cation content in mg/kg # = Verified results (see note)

Remark:

- Results of Cr III and Cr VI were reported as sum of soluble Chromium content unless specified.
- Result(s) of organic tin was (were) calculated while assuming the tin content wholly contributed from tributyltin cation unless specified.

Note:

If soluble chromium content or soluble tin content exceeded the screening limits of soluble chromium (VI) or organic tin content, the results were verified by below method

- Chromium VI: EN71 part 3:2019, Annex F
- Organic tin: EN71 part 3:2019, Annex G by Gas Chromatography Mass Spectroscopy analysis.



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RESULTS:

CADMIUM CONTENT (European Regulation (EC) No. 1907/2006 REACH Annex XVII, Item no. 23)

Cate	Category:				Plastics				
Elem	Element:				Cadmium				
Test Method				BS EN 1122: 2001, Method B					
Maxi	Maximum Allowable Limit:				100 mg/kg (0.01% by weight)				
	Sample D	escription		Reading 1	Reading 2	Average	Conclusion		
Color / Component Location Style			Result (mg/kg)						
(E)	Clear red plastic Shiny silver printed bright clear plastic	Backboard Mirror	A B	LT 10	LT 10	LT 10	Pass		
	Clear plastic	Board	D,E						

LT = Less than mg/kg = milligrams per kilogram (ppm = parts per million)

= Insufficient sample for duplicate Operator: Zhang Shao Zheng, Ryan

analyses

Cate	gory:	Paints on Painted Article			
Elem	ent:	Cadmium			
Test	Method:	In house acid digestion			
Maxi	mum Allowable Limit:			1000 mg/kg (0.19	% by weight)
	Test	Component		Result	Conclusion
	Colour/Component	Location	Style	(mg/kg)	
(A)	Bright red coating	Bright red paint (A1Y)	A,B,D,E	LT 10	Pass
(B)	Dark green coating	Dark green paint (A5Y)	A,B,D,E	LT 10	Pass
(C)	Dark blue coating	Dark blue paint (A7Y)	A,B,D,E	LT 10	Pass
(D)	Clear lacquer	Clear lacquer paint (A21Y)	A-G	LT 10	Pass

LT = Less than

mg/kg = milligrams per kilogram (ppm = parts per million)

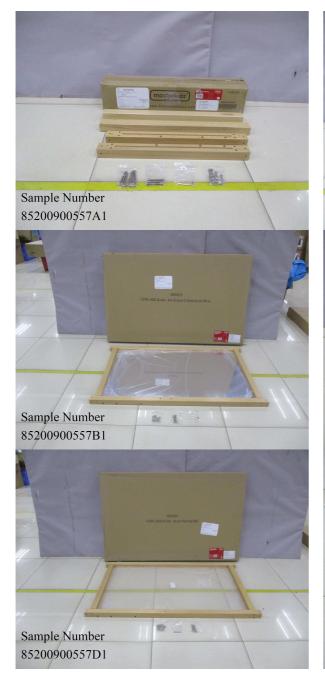
^{* =} Average of duplicate analyses



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RESULTS:







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RESULTS:





END OF REPORT