



TEST REPORT

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Dongguan U-MY Garment Co., Ltd
B-101 1st Floor, Block A, Yonglida Industry Zone, No.13 Xianfeng Road, Baima Community, Nancheng District, Dongguan City, Guangdong Province, China

Report on the submitted samples said to be:

Sample Name : Crochet Toy
Style / Item No. : HU005017
Manufacturer : Dongguan U-MY Garment Co., Ltd
Supplier : Dongguan U-MY Garment Co., Ltd
Country of Origin : China
Labeled Age Grading : /
Test Age Request : 0-3 YEARS
Appropriated Age : 0+
Tested Age Grading : 0+
Sample Receiving Date : June 28, 2020
Testing Period : From June 28, 2020 to July 15, 2020
Results : Please refer to next page(s).

Signed for and on behalf of
BACL

Checked by: Jane Xu
Jane Xu
Technical Supervisor

Approved by: Bensen Huang Jesse Shang
Bensen Huang Jesse Shang
Laboratory Manager





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Summary of Test Results:

<u>TEST REQUEST</u>	<u>CONCLUSION</u>
A Physical Test Item(s)	
1. European Standard on Safety of Toys	
1. EN 71-1:2014+A1:2018 - Mechanical and Physical Properties	Pass
2. EN 71-2:2011+A1:2014 - Flammability	Pass
2. CPSC Regulation	
1. Sharp Points & Sharp Edges & Small Parts	Pass
2. Flammability Test	Pass
3. ASTM F963-17 Standard Consumer Safety Specification for Toy Safety	
1. Mechanical and Physical Tests	Pass
2. Flammability Tests	Pass
4. Australian/New Zealand Standard on Safety of Toys	
1. AS/NZS ISO 8124.1:2019-Mechanical and Physical Properties	Pass
2. AS/NZS 8124.2:2016-Flammability Tests	Pass
5. ISO 8124: International standard on safety of toys	
1. ISO 8124-1:2018-Mechanical and Physical Tests	Pass
2. ISO 8124-2:2014-Flammability Tests	Pass
6. Canada Consumer Product Safety Act (CCPSA) -Toys Regulations (SOR/2011-17(Last amended on January 11,2019))	
1. Mechanical and Physical Tests	Pass
2. Flammability	Pass
7. ST 2016-Japanese Toy Safety Standard:	
Part 1. ST 2016 –Safety aspects related to mechanical and physical properties	Pass
Part 2. ST 2016 –Flammability	Pass
8. Chinese Standard on Safety of Toys, China GB 6675-2014	
1. GB 6675.2-2014 –Mechanical and Physical Properties	Pass
2. GB 6675.3-2014 – Flammability	Pass



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B Chemical Test Item(s)

- | | |
|---|--------------|
| 1. European Standard on Safety of Toys :EN 71-3:2019 – Migration of Certain Elements | Pass |
| 2. Entry 19 of Annex XVII to Reach regulation (EC) No 1907/2006 on Arsenic compounds content | Pass |
| 3. Entry 23 of Annex XVII of Reach regulation (EC) No 1907/2006 and its amendment Commission Regulation (EC) No 552/2009 and (EU) No 494/2011 and (EU) No 835/2012 and (EU) No 2016/217 on Cadmium (Cd) (formerly known as 91/338/EEC) | Pass |
| 4. Pentachlorophenol(PCP) content | Pass* |
| 5. Entry 20 of Annex XVII of Reach regulation (EC) No 1907/2006 and its amendment Commission Regulation (EC) No 552/2009 and (EU) No 276/2010 on Organostannic compounds (formerly known as 2002/62/EC and 2009/425/EC) | Pass |
| 6. Entry 43 of Annex XVII to Reach regulation (EC) No 1907/2006 and its amendment Commission Regulation (EU) No 126/2013 on AZO colorants content | Pass |
| 7. Allergen Disperse Dyes content | Pass* |
| 8. Formaldehyde content | Pass* |
| 9. Entry 51&52 of Annex XVII to Reach regulation (EC) No 1907/2006 and its amendment Commission Regulation (EU) 2015/326 & 2018/2005 on Phthalates content (formerly known as 2005/84/EC) | Pass |
| 10. ISO 8124-3: 2020: International standard on safety of toys — Part 3: Migration of certain elements | Pass |
| 11. GB 6675.1-2014 Toys safety — Part 1: Basic code clause 5.3.3 Migration of Certain Elements | Pass |
| 12. AS/NZS ISO 8124.3:2012 + Amdt 1:2016- Safety of toys — Part 3:Migration of Certain Elements Tests | Pass |
| 13. ASTM F963-17 Standard Consumer Safety Specification for Toy Safety (Clause 4.3.5) Heavy Elements Test | Pass |
| 14. US Consumer Products Safety Improvement Act of 2008(H.R. 4040) title 1, section 101(a) for Total Lead Content in substrate | Pass |
| 15. Consumer Product Safety Commission 16 CFR Part 1307:Prohibition of Children’s Toys and Child Care Articles Containing Specified Phthalates | Pass |
| 16. Toy Safety Standard ST 2016 Part 3: Chemical Properties | |
| 16.1 Coloring matters in material | Pass |
| 16.2 Phthalates Content | Pass |
| 17. Canada Consumer Product Safety Act (CCPSA) | |
| 17.1 Toys Regulations (SOR/2011-17)- Toxicological Hazards content | Pass |
| 17.2 Consumer Products Containing Lead Regulations, SOR/2018-83 | Pass |
| 17.3 Phthalates Regulations, SOR/2016-188 | NA |
| Product Safety Commission (AfPS), GS Specification, Testing and assessment of | |
| 18. Polycyclic Aromatic Hydrocarbons (PAHs) in the awarding of GS Marks -Specification pursuant to Article 21 (1)No. 3 of the Product Safety Act (ProdSG) -AfPS GS 2019:01 PAK | NA |

Pass* = Meet the Requirement of Client

NA= Not Applicable

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Results:

Tested part(s): (only for A Physical Test Item(s))

(1) Crochet Toy

Remark: No packaging was submitted with the sample, therefore the sample was not evaluated for the labeling requirements on the packaging.

1.1. EN 71-1:2014+A1:2018-Safety aspects related to Mechanical and physical properties

(1)

<u>Section</u>	<u>Description</u>	<u>Result</u>
4	General Requirements	
4.1	Material cleanliness	Pass
4.2	Assembly	NA
4.3	Flexible plastic sheeting	NA
4.4	Toy bags	NA
4.5	Glass	NA
4.6	Expanding materials	NA
4.7	Edges	Pass
4.8	Points and metallic, wires	Pass
4.9	Protruding parts	NA
4.10	Parts moving against each other	NA
4.11	Mouth-actuated toys and other toys intended to be put in the mouth	Pass
4.12	Balloons	NA
4.13	Cords of toy kites and other flying toys	NA
4.14	Enclosures	NA
4.15	Toys intended to bear the mass of a child	NA
4.16	Heavy immobile toys	NA
4.17	Projectiles	NA
4.18	Aquatic toys and inflatable toys	NA
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	NA
4.20	Acoustics	Pass
4.21	Toys containing a non-electrical heat source	NA



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<u>Section</u>	<u>Description</u>	<u>Result</u>
4.22	Small balls	NA
4.23	Magnets	NA
4.24	Yo-yo balls	NA
4.25	Toys attached to food	NA
4.26	Toy disguise costumes	NA
4.27	Flying toys	NA
5	Toys intended for children under 36 months	
5.1	General requirements	Pass
5.2	Soft-filled toys and soft-filled parts of a toy	Pass
5.3	Plastic sheeting	NA
5.4	Cords, chains and electrical cables in toys	NA
5.5	Liquid-filled toys	NA
5.6	Speed limitation of electrically-driven ride-on toys	NA
5.7	Glass and porcelain	NA
5.8	Shape and size of certain toys	Pass
5.9	Toys comprising 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
6	Packaging	NA
7	Warnings, markings and instructions for use	
7.1	General	NA
7.2	Toys not intended for children under 36 months	NA

Note:

NA =Not Applicable



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1.2. EN 71-2:2011+A1:2014-Flammability

(1)

<u>Section</u>	<u>Description</u>	<u>Result</u>
4	Requirements	
4.1	General	Pass
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
4.4	Toys intended to be entered by a child	NA
4.5	Soft-filled toys	Pass

Note:

NA =Not Applicable

NA



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2、CPSC Regulation

2.1 Sharp Points & Sharp Edges & Small Parts

(1)

Testing Parameters	Test Methods	Requirement	Result
Sharp Points	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 age.	Pass
Sharp Edges	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
Small Parts	CPSC 16 CFR 1501	Method for identifying toys and other articles intended for use by children under 3 years of age which present choking, aspiration, or ingestion hazards because of small parts.	Pass

Use and abuse testing (16 CFR 1500.50-53):

<u>Applicable section</u>	<u>Description</u>	<u>Test Condition</u>
16 CFR 1500.50	Normal use testing	
16 CFR 1500.50	Abuse testing	
16 CFR 1500.51	Impact test	10 drops at 4½ ft.
16 CFR 1500.53	Torque test	4 in.·lbf
16 CFR 1500.53	Tension test	15 lbf
16 CFR 1500.53	Compression test	NA
16 CFR 1500.53	Bite test	NA
16 CFR 1500.53	Flexure test	NA

Note:

NA = Not Applicable



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2.2. CPSC Regulation		
Flammability Test on Solid		
Flammability test of material		
Method used: FHSA 16 CFR 1500.44: Method for determining extremely flammable and flammable solids.		
<u>Sample</u>	<u>Burn rate (in/sec.)</u>	<u>Result</u>
(1)	IBE	Pass

Note: In accordance with the FHSA 16 CFR 1500.3 (c) (6) (vi), the burning rate should not be greater than 0.1 inch per second.

DNI = Did Not Ignited

IBE = Ignite But Self-Extinguished



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3、ASTM F963-17:

3.1. Safety Aspects Related to Mechanical and Physical Properties

(1)

<u>Section</u>	<u>Description</u>	<u>Result</u>
4	Safety requirements	
4.1	Material quality	Pass
4.3.7	Stuffing Materials	Pass
4.4	Electrical/thermal energy	NA
4.5	Sound producing toys	Pass
4.6	Small objects	Pass
4.7	Accessible edges	Pass
4.8	Projections	NA
4.9	Accessible points	Pass
4.10	Wires or rods	NA
4.11	Nails and fasteners	NA
4.12	Packaging film	NA
4.13	Folding mechanisms and hinges	NA
4.14	Cords and elastics in toys	NA
4.15	Stability and over-load requirements	NA
4.16	Confined spaces	NA
4.17	Wheels, tires, and axles	NA
4.18	Holes, clearance, and accessibility of mechanisms	NA
4.19	Simulated protective devices	NA
4.20	Pacifiers	NA
4.21	Projectile toys	NA
4.22	Teethers and teething toys	Pass
4.23	Rattles	Pass
4.24	Squeeze toys	NA
4.25	Battery-operated toys	NA
4.26	Toys intended to be attached to a crib or playpen	NA
4.27	Stuffed and beanbag-type toys	Pass
4.28	Stroller carriage toys	NA



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<u>Section</u>	<u>Description</u>	<u>Result</u>
4.29	Art materials	NA
4.30	Toy gun marking	NA
4.31	Balloons	NA
4.32	Certain toys with nearly spherical ends	NA
4.33	Marbles	NA
4.34	Balls	NA
4.35	Pompoms	NA
4.36	Hemispheric-shaped objects	NA
4.37	Yo Yo elastic tether toys	NA
4.38	Magnets	NA
4.39	Jaw entrapment in handles and steering wheels	NA
4.40	Expanding Materials	NA
4.41	Toy Chests	NA
5	Labeling requirements	
5.2	Age Grading Labeling	NA
5.16	Promotional Materials	NA
6	Instructional literature	
6.1	Definition & Description	NA
7	Producer's markings	
7.1	Producer's Name and Address	NA

Use and abuse testing:

<u>Applicable section</u>	<u>Description</u>	<u>Test Condition</u>
8.5	Normal use testing	
8.6	Abuse testing	
8.7	Impact test	10 drops at 4½ ft.
8.8	Torque test	4 in.·lbf.
8.9	Tension test	15 lbf.

Note:

NA =Not Applicable



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3. 2. Flammability

Flammability test of material

Ref.: ASTM F963-17 Section 4.2 Annex 5

<u>Sample</u>	<u>Burn rate (in/sec.)</u>	<u>Result</u>
(1)	IBE	Pass

Note: In accordance with the ASTM F963-17, the burning rate should not be greater than 0.1 inch per second.

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IBE = Ignite But Self-Extinguished

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4.1. AS/NZS ISO 8124.1:2019-Safety aspects related to Mechanical and Physical Properties

(1)

<u>Section</u>	<u>Description</u>	<u>Result</u>
4	Requirements	
4.1	Normal use	Pass
4.2	Reasonably foreseeable abuse	Pass
4.3	Material	
4.3.1	Material quality	Pass
4.3.2	Expanding materials	NA
4.4	Small parts	
4.4.1	For children under 36 months	Pass
4.4.2	For children 37 months and over but under 72 months	NA
4.5	Shape, size and strength of certain toys	
4.5.1	Squeeze toys, rattles and certain other toys and components of toys	Pass
4.5.2	Small balls	NA
4.5.3	Pompoms	NA
4.5.4	Pre-school play figures	NA
4.5.5	Toy pacifiers	NA
4.5.6	Balloons	NA
4.5.7	Marbles	NA
4.5.8	Hemispheric-shaped toys	NA
4.6	Edges	
4.6.1	Accessible sharp edges of glass or metal	NA
4.6.2	Functional sharp edges	NA
4.6.3	Edges on metal toys	NA
4.6.4	Edges on moulded toys	Pass
4.6.5	Edges on exposed bolts or threaded rods	NA
4.7	Points	
4.7.1	Accessible sharp points	Pass
4.7.2	Functional sharp points	NA
4.7.3	Wooden toys	Pass

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<u>Section</u>	<u>Description</u>	<u>Result</u>
4.8	Projections	
4.8.1	General requirements	NA
4.8.2	Special considerations for bath toy projections	NA
4.9	Metal wires and rods	NA
4.10	Plastic film or plastic bags in packaging and in toys	NA
4.11	Cords	
4.11.2	Cords in toys intended for children under 18 months	NA
4.11.3	Cords in toys intended for children under 18 months and over but under 36 months	NA
4.11.4	Fixed loops and nooses intended for children under 36 months	NA
4.11.5	Cords on pull toys	NA
4.11.6	Electrical cables	NA
4.11.7	Diameter of certain cords intended for children under 36 months	NA
4.11.8	Self-retracting cords intended for children under 36 months	NA
4.11.9	Toys attached to or intended to be strung across, or otherwise attached to, a cradle, cot, perambulator or carriage	NA
4.11.10	Cords on toy bags	NA
4.11.11	Cords, strings and lines for flying toys	NA
4.12	Folding mechanisms	
4.12.1	Toy pushchairs, perambulators and similar toys	NA
4.12.2	Other toys with folding mechanisms	NA
4.12.3	Hinge-line clearance	NA
4.13	Holes, clearances and accessibility of mechanisms	
4.13.1	Circular holes in rigid materials	NA
4.13.2	Accessible clearances for movable segments	NA
4.13.3	Chains or belts in ride-on toys	NA
4.13.4	Other driving mechanisms	NA
4.13.5	Winding keys	NA
4.14	Springs	NA
4.15	Stability and overload requirements	
4.15.1	Stability of ride-on toys and seats	NA
4.15.2	Overload requirements for ride-on toys and seats	NA
4.15.3	Stability of stationary floor toys	NA



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<u>Section</u>	<u>Description</u>	<u>Result</u>
4.16	Enclosures	NA
4.17	Simulated protective equipment, such as helmets, hats and goggles	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	NA
4.29	Acoustic requirements	Pass
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 warning	NA
4.35	Jaw entrapment in handles and steering wheels	NA
Annex B	Safety-labelling guidelines and manufacturer's markings	
Annex B.2.2	Age grading	NA
Annex B.3	Instructional literature	NA
Annex B.4	Manufacturer's markings	NA

Note:

NA =Not Applicable



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4.2. AS/NZS 8124.2:2016 - Flammability

(1)

<u>Section</u>	<u>Description</u>	<u>Result</u>
4	Requirements	
4.1	General	Pass
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 a play	NA
4.4	Toys intended to be entered by a child	NA
4.5	Soft-filled toys	Pass

Note:

NA =Not Applicable

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5.1. ISO 8124-1:2018- Safety aspects related to Mechanical and physical properties

(1)

<u>Section</u>	<u>Description</u>	<u>Result</u>
4	Requirements	
4.1	Normal use	Pass
4.2	Reasonably foreseeable abuse	Pass
4.3	Material	
4.3.1	Material quality	Pass
4.3.2	Expanding materials	NA
4.4	Small parts	
4.4.1	For children under 36 months	Pass
4.4.2	For children 36 months and over but under 72 months	NA
4.5	Shape, size and strength of certain toys	
4.5.1	Squeeze toys, rattles and certain other toys and components of toys	Pass
4.5.2	Small balls	NA
4.5.3	Pompoms	NA
4.5.4	Pre-school play figures	NA
4.5.5	Toy pacifiers	NA
4.5.6	Balloons	NA
4.5.7	Marbles	NA
4.5.8	Hemispheric-shaped toys	NA
4.6	Edges	
4.6.1	Accessible sharp edges of glass or metal	NA
4.6.2	Functional sharp edges	NA
4.6.3	Edges on metal toys	NA
4.6.4	Edges on moulded toys	Pass
4.6.5	Edges on exposed bolts or threaded rods	NA
4.7	Points	
4.7.1	Accessible sharp points	Pass
4.7.2	Functional sharp points	NA
4.7.3	Wooden toys	Pass

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<u>Section</u>	<u>Description</u>	<u>Result</u>
4.8	Projections	
4.8.1	General requirements	NA
4.8.2	Special considerations for bath toy projections	NA
4.9	Metal wires and rods	NA
4.10	Plastic film or plastic bags in packaging and in toys	NA
4.11	Cords and elastics	
4.11.2	Cords in toys intended for children under 18 months.	NA
4.11.3	Cords in toys intended for children 18 months and over but under 36 months	NA
4.11.4	Fixed loops and nooses intended for children under 36 months	NA
4.11.5	Cords on pull toys	NA
4.11.6	Electrical cables	NA
4.11.7	Diameter of certain cords intended for children under 36 months	NA
4.11.8	Self-retracting cords intended for children under 36 months	NA
4.11.9	Toys attached to or intended to be strung across, or otherwise attached to, a cradle, cot, perambulator or carriage	NA
4.11.10	Cords on toy bags	NA
4.11.11	Cords, strings and lines for flying toys	NA
4.12	Folding mechanisms	
4.12.1	Toy pushchairs, perambulators and similar toys	NA
4.12.2	Other toys with folding mechanisms	NA
4.12.3	Hinge-line clearance	NA
4.13	Holes, clearances and accessibility of mechanisms	
4.13.1	Circular holes in rigid materials	NA
4.13.2	Accessible clearances for movable segments	NA
4.13.3	Chains or belts in ride-on toys	NA
4.13.4	Other driving mechanisms	NA
4.13.5	Winding keys	NA
4.14	Springs	NA
4.15	Stability and overload requirements	NA
4.16	Enclosures	NA
4.17	Simulated protective equipment, such as helmets, hats and goggles	NA



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<u>Section</u>	<u>Description</u>	<u>Result</u>
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	NA
4.29	Acoustic requirements	Pass
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
Annex B	Safety-labeling guidelines and manufacturer's markings	
Annex B.2.2	Age grading	NA
Annex B.3	Instructional literature	NA
Annex B.4	Manufacturer's markings	NA

Note:

NA =Not Applicable



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5.2. ISO 8124-2:2014- Flammability

(1)

<u>Section</u>	<u>Description</u>	<u>Result</u>
4	Requirements	
4.1	General	Pass
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 a play	NA
4.4	Toys intended to be entered by a child	NA
4.5	Soft-filled toys	Pass

Note:

NA = Not Applicable

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6.1. Canadian Toys Regulations-Safety aspects related to Mechanical and physical properties

(1)

<u>Applicable Section</u>	<u>Description</u>	<u>Result</u>
3	GENERAL - Official languages	NA
4	PACKAGING - Flexible film bags	NA
7	MECHANICAL HAZARDS - Small part	Pass
8	MECHANICAL HAZARDS - Metal edges	NA
9	MECHANICAL HAZARDS - Wire frames	NA
10	MECHANICAL HAZARDS - Plastic edges	NA
11	MECHANICAL HAZARDS - Wood	Pass
12	MECHANICAL HAZARDS - Glass	NA
13	MECHANICAL HAZARDS - Fasteners	NA
14	MECHANICAL HAZARDS - Safety stops or locking devices	NA
15	MECHANICAL HAZARDS - Spring-wound driving mechanisms	NA
16	MECHANICAL HAZARDS - Projectile components	NA
17	MECHANICAL HAZARDS - Enclosures	NA
18	MECHANICAL HAZARDS - Stability	NA
19	AUDITORY HAZARDS - Decibel limit	NA
28	SPECIFIC PRODUCTS - Dolls, plush toys and soft toys - fastenings	Pass
29	SPECIFIC PRODUCTS - Dolls, plush toys and soft toys - stuffing	Pass
30	SPECIFIC PRODUCTS - Dolls, plush toys and soft toys - small parts	NA
31	SPECIFIC PRODUCTS - Dolls, plush toys and soft toys - eyes and noses	NA
35	PLANT SEEDS - Noise	NA
36	PLANT SEEDS - Stuffing material	NA
37	PULL AND PUSH TOYS - Shaft-like handles	NA
38	TOY STEAM ENGINES - Boilers - safety valves	NA
39	FINGER PAINTS - Water-based paints	NA
40	RATTLES - Construction	Pass
41	ELASTICS - Length or extensibility	NA
42	YO-YO TYPE BALLS – Stretchable cords	NA
43	MAGNETIC TOYS- Magnetic force	NA
44	MAGNETIC TOYS- Exceptions	NA



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6.2. Canadian Toys Regulations-Safety aspects related to flammability properties

(1)

<u>Applicable Section</u>	<u>Description</u>	<u>Result</u>
21	Celluloid or cellulose nitrate	Pass
32	SPECIFIC PRODUCTS - Dolls, plush toys and soft toys - flammability of outer covering	Pass
33	SPECIFIC PRODUCTS - Dolls, plush toys and soft toys - flammability of yarn	NA
34	SPECIFIC PRODUCTS - Dolls, plush toys and soft toys - flammability of hair or mane	NA

Note:

NA =Not Applicable

MANA

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7.1. ST 2016 Part 1 –Safety aspects related to mechanical and physical properties

(1)

<u>Section</u>	<u>Description</u>	<u>Result</u>
4	Requirements	
4.1	Normal use	Pass
4.2	Reasonably foreseeable abuse	Pass
4.3	Material	Pass
4.4	Small parts	Pass
4.5	Shape, size and strength of certain toys	Pass
4.6	Edges	Pass
4.7	Points	Pass
4.8	Projections	NA
4.9	Metal wires and rods	NA
4.10	Plastic film or plastic bags in toys	NA
4.11	Cords and elastics	NA
4.12	Folding mechanisms	NA
4.13	Holes, clearances and accessibility of mechanisms	NA
4.14	Springs	NA
4.15	Stability and overload requirements	NA
4.16	Enclosures	NA
4.17	Simulated protective equipment, such as helmets, hats and goggles	NA
4.18	Projectile toys	NA
4.19	Aquatic toys	NA
4.20	Toys containing a heat source	NA
4.21	Liquid-filled toys	NA
4.22	Mouth-actuated toys	NA
4.23	Acoustic requirements	Pass
4.24	Magnets and magnetic components	NA
4.25	Inflatable vinyl toys intended to be used on land	NA
4.26	Batteries	NA
4.27	Food imitation toys and toys which possess a food scent	NA



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<u>Section</u>	<u>Description</u>	<u>Result</u>
6	Packaging	NA
7	Marking	
7.1	General	NA
7.2	Indication of Warnings	NA

Note:

NA =Not Applicable

7.2. ST 2016 Part 2–Flammability

<u>Section</u>	<u>Description</u>	<u>Result</u>
4	Requirements	
4.1	General	Pass
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 a play	NA
4.4	Toys intended to be entered by a child	NA
4.5	Soft-filled toys	Pass

Note:

NA =Not Applicable

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8. 1. GB 6675.2-2014: Mechanical and physical properties

(1)

<u>Section</u>	<u>Description</u>	<u>Result</u>
4	Requirements	
4.1	Normal use	Pass
4.2	Reasonably foreseeable abuse	Pass
4.3	Material	Pass
4.4	Small parts	Pass
4.5	Shape, size and strength of certain toys	Pass
4.6	Edges	Pass
4.7	Points	Pass
4.8	Projections	NA
4.9	Metal wires and rods	NA
4.10	Plastic film or plastic bags in packaging and in toys	NA
4.11	Cords and elastics	NA
4.12	Folding mechanisms	NA
4.13	Holes, clearances and accessibility of mechanisms	NA
4.14	Springs	NA
4.15	Stability and overload requirements	NA
4.16	Enclosures	NA
4.17	Simulated protective equipment, such as helmets, hats and goggles	NA
4.18	Projectile toys	NA
4.19	Aquatic toys	NA
4.20	Braking	NA
4.21	Toy bicycles	NA
4.22	Speed limitation of electrically driven ride-on toys	NA
4.23	Toys containing a heat source	NA
4.24	Liquid-filled toys	NA
4.25	Mouth-actuated toys	NA
4.26	Toy roller skates, toy inline skates and toy skateboards	NA
4.27	Percussion caps	NA
4.28	Acoustic requirements	Pass
4.29	Magnets and magnetic components	NA



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8. 2. GB 6675.3-2014-Flammability

<u>Section</u>	<u>Description</u>	<u>Result</u>
4	Requirements	
4.1	General	Pass
4.2	Toys to be worn on the head	NA
4.3	Toys disguise costumes	NA
4.4	Toys intended to be entered by a child	NA
4.5	Soft-filled toys (animals and dolls etc.) with a piled or textile surface	Pass

Note:

NA =Not Applicable



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Results:

Tested part(s): (only for B Chemical Test Item(s))

- (1) Black thread (eyes/nose/eyebrow/hair)
- (2) Grey thread (nose)
- (3) White thread (body/ears/ring cover)
- (4) Lt. natural wood(ring)
- (5) White wadding (body interlining)
- (6) White plastic (bell shell)
- (7) Transparent plastic (shell, inside bell)
- (8) Transparent plastic (bead, inside bell)

1. European Standard on Safety of Toys :EN 71-3:2019 – Migration of Certain Elements

Test Method: With reference to EN71-3:2019. Analysis was performed by Inductively Coupled Plasma Optical Emission spectrometry (ICP-OES), Gas chromatographic-mass spectrometer (GC-MS), Liquid chromatographic in combination with ICP-MS (LC-ICP-MS)

Element	Unit	RL	Results						Limit
			(1)	(2)	(3)	(4)	(5)	(6)	
Aluminium (Al)	mg/kg	12.0	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	70000
Antimony (Sb)	mg/kg	6.0	N.D.	N.D.	N.D.	N.D.	11.6	N.D.	560
Arsenic (As)	mg/kg	0.80	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	47
Barium (Ba)	mg/kg	12.0	N.D.	N.D.	N.D.	14.1	N.D.	N.D.	18750
Boron (B)	mg/kg	12.0	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	15000
Cadmium (Cd)	mg/kg	0.15	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	17
Chromium (III) (Cr III)	mg/kg	9	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	460
Chromium(VI) (CrVI)	mg/kg	0.0475	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.053
Cobalt (Co)	mg/kg	2.26	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	130
Copper (Cu)	mg/kg	12.0	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	7700
Lead (Pb)	mg/kg	0.48	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	23
Manganese (Mn)	mg/kg	12.0	N.D.	N.D.	N.D.	85.7	N.D.	N.D.	15000
Mercury (Hg)	mg/kg	1.80	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	94
Nickel (Ni)	mg/kg	6.0	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	930
Selenium (Se)	mg/kg	6.00	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	460
Strontium (Sr)	mg/kg	12.00	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	56000
Tin (Sn)	mg/kg	4.50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	180000
Organic Tin *	mg/kg	1.00	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	12
Zinc (Zn)	mg/kg	12.0	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	46000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/



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Remark I:

Soluble Chromium (III) = soluble Chromium – soluble Chromium (VI)

Remark II:

*= Result(s) of organic tin was (were) calculated while assuming the tin content wholly contributed from tributyltin cation unless specified.

Organic Tin including Methyltin (MeT), Dimethyltin (DMT), Butyltin (BuT), Dibutyltin (DBT), Tributyltin (TBT), Tetrabutyltin (TeBT), Mono-octyltin (MOT), Dioctyltin (DOT), Dipropyltin (DProT), Diphenyltin (DPHT), Triphenyltin (TPHT)

Note:

- N.D. = Not Detected or less than RL
- RL = Report Limit
- mg/kg = ppm
- Photo is included

2. Entry 19 of Annex XVII to Reach regulation (EC) No 1907/2006 on Arsenic compounds content

Test method: Acid digestion and analysis was performed by Inductively Coupled Plasma Optical Emission spectrometry (ICP-OES).

Item	Unit	MDL	Results	Limit
			(4)	
Arsenic (As)	mg/kg	10	N.D.	N.D.
Conclusion	/	/	Pass	/

Note:

- N.D. = Not Detected or less than MDL
- MDL = Method Detection Limit
- mg/kg = ppm
- Photo is included.



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3. Entry 23 of Annex XVII of Reach regulation (EC) No 1907/2006 and its amendment Commission Regulation (EC) No 552/2009 and (EU) No 494/2011 and (EU) No 835/2012 and (EU) No 2016/217 on Cadmium (Cd) (formerly known as 91/338/EEC)

Test method: With reference to EN 1122:2001(E), analysis was performed by Atomic Absorption Spectrometry (AAS).

Item	Unit	MDL	Results		Limit
			(6)	(7)+(8)	
Cadmium (Cd)	mg/kg	10	N.D.	N.D.	100
Conclusion	/	/	Pass	Pass	/

Note:

- N.D. = Not Detected or less than MDL
- MDL = Method Detection Limit
- mg/kg = ppm
- "+"= Mixed, The admixture of specimen is tested as a whole(part) which according to the applicant's request, the result of report as average value because of the whole specimen is regarded as constituting from the homogeneous material. If the testing of specimen may have the obvious difference, and the result may exceed the number in this report. The applicant will undertake all differences and risk.
- Photo is included.



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4. Pentachlorophenol (PCP) content

Test method: With reference to LFGB § 64 BVL B 82.02.8:2001(textile)/ CEN/TR 14823-2006(wood), by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS)

Item	Unit	MDL	Results			Client's Limit
			(1)+(2)	(3)+(5)	(4)	
Pentachlorophenol(PCP)	mg/kg	0.05	N.D.	N.D.	N.D.	5
Conclusion	/	/	Pass	Pass	Pass	/

Note:

- N.D. = Not Detected or less than MDL
- MDL = Method Detection Limit
- % = Percentage by weight
- mg/kg = ppm 0.1%=1000 mg/kg
- Samples (1) (2) were tested by semi-product due to insufficient finished sample size according to the applicant's request, The applicant will undertake all differences and risk.
- "+"= Mixed, The admixture of specimen is tested as a whole(part) which according to the applicant's request, the result of report as average value because of the whole specimen is regarded as constituting from the homogeneous material. If the testing of specimen may have the obvious difference, and the result may exceed the number in this report. The applicant will undertake all differences and risk.
- Photo is included.

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5. Entry 20 of Annex XVII of Reach regulation (EC) No 1907/2006 and its amendment Commission Regulation (EC) No 552/2009 and (EU) No 276/2010 on Organostannic compounds (formerly known as 2002/62/EC and 2009/425/EC)

Test method: With reference to ISO/TS 16179: 2012, by solvent extraction and analysis was performed by Gas Chromatographic- Mass Spectrometer (GC-MS)

Item	Unit	MDL	Results		Limit
			(1)+(2)+(3)	(4)	
Tributyltin(TBT)by weight of tin	mg/kg	10	N.D.	N.D.	/
Triphenyltin(TPhT) by weight of tin	mg/kg	10	N.D.	N.D.	/
Tricyclohexyltin(TCyT) by weight of tin	mg/kg	10	N.D.	N.D.	/
Trioctyltin(TOT) by weight of tin	mg/kg	10	N.D.	N.D.	/
Tripropyltin(TPT) by weight of tin	mg/kg	10	N.D.	N.D.	/
Trimethyltin (TMT) by weight of tin	mg/kg	10	N.D.	N.D.	/
Sum of TBT, TPhT , TcyT, TOT,TPT, TMT by weight of tin	mg/kg	10	N.D.	N.D.	1000
Dibutyltin(DBT) by weight of tin	mg/kg	10	N.D.	N.D.	1000
Dioctyltin (DOT) by weight of tin	mg/kg	10	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	/



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Item	Unit	MDL	Results		Limit
			(5)+(6)+(7)	(8)	
Tributyltin(TBT)by weight of tin	mg/kg	10	N.D.	N.D.	/
Triphenyltin(TPhT) by weight of tin	mg/kg	10	N.D.	N.D.	/
Tricyclohexyltin(TcyT) by weight of tin	mg/kg	10	N.D.	N.D.	/
Trioctyltin(TOT) by weight of tin	mg/kg	10	N.D.	N.D.	/
Tripropyltin(TPT) by weight of tin	mg/kg	10	N.D.	N.D.	/
Trimethyltin (TMT) by weight of tin	mg/kg	10	N.D.	N.D.	/
Sum of TBT, TPhT , TcyT, TOT,TPT, TMT by weight of tin	mg/kg	10	N.D.	N.D.	1000
Dibutyltin(DBT) by weight of tin	mg/kg	10	N.D.	N.D.	1000
Dioctyltin (DOT) by weight of tin	mg/kg	10	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	/

Note:

- N.D. = Not Detected or less than MDL
- MDL = Method Detection Limit
- % = Percentage by weight
- 0.1% = 1000mg/kg, mg/kg = ppm
- The results less than MDL are not taken into account while calculating the sum contents.
- Samples (1) (2) (8) were tested by semi-product due to insufficient finished sample size according to the applicant's request, The applicant will undertake all differences and risk.
- "+"= Mixed, The admixture of specimen is tested as a whole(part) which according to the applicant's request, the result of report as average value because of the whole specimen is regarded as constituting from the homogeneous material. If the testing of specimen may have the obvious difference, and the result may exceed the number in this report. The applicant will undertake all differences and risk.
- Photo is included

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6. Entry 43 of Annex XVII to Reach regulation (EC) No 1907/2006 and its amendment Commission Regulation (EU) No 126/2013 on AZO colorants content

Test method: With reference to EN ISO 14362-1: 2017, Analysis was performed by gas chromatographic-mass spectrometer (GC-MS)

No	Item	CAS No.	Unit	MDL	Results	Limit
					(1)+(2)	
1	4-aminodiphenyl/xenylamine/Biphenyl-4-ylamine	92-67-1	mg/kg	5	N.D.	30
2	Benzidine	92-87-5	mg/kg	5	N.D.	30
3	4-chlor- <i>o</i> -toluidine	95-69-2	mg/kg	5	N.D.	30
4	2-naphthylamine	91-59-8	mg/kg	5	N.D.	30
5	<i>o</i> -aminoazotoluene/4- <i>o</i> -tolylazo- <i>o</i> -toluidine/4-amino-2',3-dimethylazobenzene	97-56-3	mg/kg	5	N.D.	30
6	2-amino-4-nitrotoluol/5-nitro- <i>o</i> -toluidine	99-55-8	mg/kg	5	N.D.	30
7	<i>p</i> -chloranilin/4-chloroaniline	106-47-8	mg/kg	5	N.D.	30
8	2,4-diaminoanisol/4-methoxy- <i>m</i> -phenylenediamine	615-05-4	mg/kg	5	N.D.	30
9	4,4'-diaminodiphenylmethane/4,4'-methylenedianiline	101-77-9	mg/kg	5	N.D.	30
10	3,3'-dichlorobenzidine/3,3'-dichlorobiphenyl-4,4'-ylenediamine	91-94-1	mg/kg	5	N.D.	30
11	3,3'-dimethoxybenzidine/ <i>o</i> -dianisidine	119-90-4	mg/kg	5	N.D.	30
12	3,3'-dimethylbenzidine/4,4'-bi- <i>o</i> -Toluidine	119-93-7	mg/kg	5	N.D.	30
13	3,3'-dimethyl-4,4'-diaminodipenylmethane/4,4'-methylenedi- <i>o</i> -toluidine	838-88-0	mg/kg	5	N.D.	30
14	<i>p</i> -cresidin/6-methoxy- <i>m</i> -toluidine	120-71-8	mg/kg	5	N.D.	30
15	4,4'-methylen-bis-(2-chloro-aniline)/2,2'-dichloro-4,4'-methylene-dianiline	101-14-4	mg/kg	5	N.D.	30
16	4,4'-oxydianiline	101-80-4	mg/kg	5	N.D.	30
17	4,4'-thiodianiline	139-65-1	mg/kg	5	N.D.	30
18	<i>o</i> -toluidine/2-aminotoluene	95-53-4	mg/kg	5	N.D.	30
19	2,4-toluylendiamine/4-methyl- <i>m</i> -phenylenediamine	95-80-7	mg/kg	5	N.D.	30
20	2,4,5-trimethylaniline	137-17-7	mg/kg	5	N.D.	30
21	4-aminoazobenzene*	60-09-3	mg/kg	5	N.D.	30
22	<i>o</i> -anisidine/ 2-methoxyaniline	90-04-0	mg/kg	5	N.D.	30
	Conclusion	/	/	/	Pass	/



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Note:

- N.D. = Not Detected or less than MDL
- MDL = Method Detection Limit
- mg/kg = ppm
- Sample (2) was tested by semi-product due to insufficient finished sample size according to the applicant's request, The applicant will undertake all differences and risk.
- *: The EN ISO 14362-1: 2017, method will enable further cleavage of 4-aminoazobenzene to non-forbidden amines: aniline or 1,4-phenylenediamine. If the test result for 4-aminoazobenzene (CAS No. 60-09-3) is considered as "Not Detected" since both aniline and / or 1,4-phenylenediamine is not found by mentioned test method. Otherwise the test method of EN ISO 14362-3: 2017 is employed to verify the presence of 4-aminoazobenzene
- "+" = Mixed, The admixture of specimen is tested as a whole (part) which according to the applicant's request, the result of report as average value because of the whole specimen is regarded as constituting from the homogeneous material. If the testing of specimen may have the obvious difference, and the result may exceed the number in this report. The applicant will undertake all differences and risk.
- Photo is included.

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7. Allergen Disperse Dyes content

Test method: With reference to DIN 54231: 2005, by ultrasonic extraction and analysis was performed by liquid chromatographic- mass spectrometer (LC-MS/MS)

Items	Unit	MDL	Results		Client's Limit
			(1)	(2)	
C.I. Disperse Blue 1	mg/L	1	N.D.	N.D.	5
C.I. Disperse Blue 3	mg/L	1	N.D.	N.D.	5
C.I. Disperse Blue 7	mg/L	1	N.D.	N.D.	5
C.I. Disperse Blue 26	mg/L	1	N.D.	N.D.	5
C.I. Disperse Blue 35	mg/L	1	N.D.	N.D.	5
C.I. Disperse Blue 102	mg/L	1	N.D.	N.D.	5
C.I. Disperse Blue 106	mg/L	1	N.D.	N.D.	5
C.I. Disperse Blue 124	mg/L	1	N.D.	N.D.	5
C.I. Disperse Brown 1	mg/L	1	N.D.	N.D.	5
C.I. Disperse Orange 1	mg/L	1	N.D.	N.D.	5
C.I. Disperse Orange 3	mg/L	1	N.D.	N.D.	5
C.I. Disperse Orange 37 (=59/= 76)	mg/L	1	N.D.	N.D.	5
C.I. Disperse Orange 59	mg/L	1	N.D.	N.D.	5
C.I. Disperse Orange 76	mg/L	1	N.D.	N.D.	5
C.I. Disperse Red 1	mg/L	1	N.D.	N.D.	5
C.I. Disperse Red 11	mg/L	1	N.D.	N.D.	5
C.I. Disperse Red 17	mg/L	1	N.D.	N.D.	5
C.I. Disperse Yellow 1	mg/L	1	N.D.	N.D.	5
C.I. Disperse Yellow 3	mg/L	1	N.D.	N.D.	5
C.I. Disperse Yellow 9	mg/L	1	N.D.	N.D.	5
C.I. Disperse Yellow 39	mg/L	1	N.D.	N.D.	5
C.I. Disperse Yellow 49	mg/L	1	N.D.	N.D.	5
Conclusion	/	/	Pass	Pass	/



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Note:

- N.D. = Not Detected or less than MDL
- MDL = Method Detection Limit
- mg/kg = ppm
- Samples (1) (2) were tested by semi-product due to insufficient finished sample size according to the applicant's request, The applicant will undertake all differences and risk.
- "+" = Mixed, The admixture of specimen is tested as a whole(part) which according to the applicant's request, the result of report as average value because of the whole specimen is regarded as constituting from the homogeneous material. If the testing of specimen may have the obvious difference, and the result may exceed the number in this report. The applicant will undertake all differences and risk.
- Photo is included.

8. Formaldehyde content

Test method: With reference to ISO 14184-1:2011, Analysis was performed by UV-visible spectrophotometer (UV-Vis)

Item	Unit	MDL	Results			Client's Limit
			(1)	(2)	(3)	
Formaldehyde	mg/kg	16	N.D.	N.D.	N.D.	30
Conclusion	/	/	Pass	Pass	Pass	/

Note:

- N.D. = Not Detected or less than MDL
- MDL = Method Detection Limit
- mg/kg = ppm
- Samples (1) (2) were tested by semi-product due to insufficient finished sample size according to the applicant's request, The applicant will undertake all differences and risk.
- Sample is packed without sealing as received The applicant will undertake all differences and risk.
- Photo is included.

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9. Entry Entry 51&52 of Annex XVII to Reach regulation (EC) No 1907/2006 and its amendment Commission Regulation (EU) 2015/326 & 2018/2005 on Phthalates content (formerly known as 2005/84/EC) (Tested parts are required partially by client)

Test method: With reference to EN 14372: 2004(E), by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS)

Item	Unit	MDL	Results			Limit
			(6)	(7)	(8)	
Dibutyl Phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	---
Benzylbutyl Phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	---
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	---
Diisobutyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	---
DBP + BBP +DEHP+ DIBP	mg/kg	/	N.D.	N.D.	N.D.	1000
Di-n-octyl Phthalate (DNOP)	mg/kg	30	N.D.	N.D.	N.D.	---
Diisononyl Phthalate (DINP)	mg/kg	100	N.D.	N.D.	N.D.	---
Diisodecyl Phthalate (DIDP)	mg/kg	100	N.D.	N.D.	N.D.	---
DNOP + DINP + DIDP	mg/kg	/	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	/

Note:

- N.D. = Not Detected or less than MDL
- MDL = Method Detection Limit
- % = Percentage by weight
- 0.1% = 1000mg/kg, mg/kg = ppm
- The results less than MDL are not taken into account while calculating the sum contents.
- Sample (8) was tested by semi-product due to insufficient finished sample size according to the applicant's request, The applicant will undertake all differences and risk.
- "+"= Mixed, The admixture of specimen is tested as a whole(part) which according to the applicant's request, the result of report as average value because of the whole specimen is regarded as constituting from the homogeneous material. If the testing of specimen may have the obvious difference, and the result may exceed the number in this report. The applicant will undertake all differences and risk.
- Photo is included.

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10. ISO 8124-3: 2020: International standard on safety of toys — Part 3: Migration of certain elements

Test method: With reference to ISO 8124-3:2020. Analysis was performed by Inductively Coupled Plasma-Optical Emission Spectrometer (ICP-OES)

Item	Unit	MDL	Results						Limit
			(1)	(2)	(3)	(4)	(5)	(6)	
Soluble Lead (Pb)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	90
Soluble Antimony (Sb)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Arsenic (As)	mg/kg	3	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	25
Soluble Barium (Ba)	mg/kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Soluble Cadmium (Cd)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	75
Soluble Chromium (Cr)	mg/kg	3	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Mercury (Hg)	mg/kg	3	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Selenium (Se)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	500
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Note:

- N.D. = Not Detected or less than MDL
- MDL = Method Detection Limit
- mg/kg = ppm
- Results shown are of the adjusted analytical results.
- Photo is included.

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11. GB 6675.1-2014 Toys safety — Part 1: Basic code clause 5.3.3 Migration of Certain Elements

Test method: With reference to GB 6675.4-2014. Analysis was performed by Inductively Coupled Plasma-Optical Emission Spectrometer (ICP-OES)

Item	Unit	MDL	Results						Limit
			(1)	(2)	(3)	(4)	(5)	(6)	
Soluble Lead (Pb)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	90
Soluble Antimony (Sb)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Arsenic (As)	mg/kg	3	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	25
Soluble Barium (Ba)	mg/kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Soluble Cadmium (Cd)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	75
Soluble Chromium (Cr)	mg/kg	3	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Mercury (Hg)	mg/kg	3	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Selenium (Se)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	500
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Note:

- N.D. = Not Detected or less than MDL
- MDL = Method Detection Limit
- mg/kg = ppm
- Results shown are of the adjusted analytical results.
- Photo is included.

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12. AS/NZS ISO 8124.3:2012 + Amdt 1:2016 - Safety of toys — Part 3:Migration of Certain Elements Tests

Test method: With reference to AS/NZS ISO 8124.3:2012 + Amdt 1:2016. Analysis was performed by Inductively Coupled Plasma-Optical Emission Spectrometer (ICP-OES)

Item	Unit	MDL	Results						Limit
			(1)	(2)	(3)	(4)	(5)	(6)	
Soluble Lead (Pb)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	90
Soluble Antimony (Sb)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Arsenic (As)	mg/kg	3	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	25
Soluble Barium (Ba)	mg/kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Soluble Cadmium (Cd)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	75
Soluble Chromium (Cr)	mg/kg	3	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Mercury (Hg)	mg/kg	3	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Selenium (Se)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	500
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Note:

- N.D. = Not Detected or less than MDL
- MDL = Method Detection Limit
- mg/kg = ppm
- Results shown are of the adjusted analytical results.
- Photo is included.

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13. ASTM F963-17 Standard Consumer Safety Specification for Toy Safety (Clause 4.3.5)

Heavy Elements Test

Total Lead Content (in substrates)

Test method: As per CPSC-CH-E1002-08.3, by acid digestion and analysis was performed by Atomic Absorption Spectrometry (AAS).

Item	Unit	MDL	Results	Limit
			(6)	
Lead (Pb)	mg/kg	10	N.D.	100
Conclusion	/	/	Pass	/

Note:

- N.D. = Not Detected or less than MDL
- mg/kg = ppm
- MDL = Method Detection Limit
- Photo is included.

Soluble Heavy Metals Content (in substrates)

Test method: ASTM F963-17: Soluble element Contents (Clause 4.3.5.2) - Samples were extracted by dilute hydrochloric acid in accordance with ASTM F963-17 (Clause 8.3.5), Analysis was performed by Inductively Coupled Plasma-Optical Emission Spectrometer (ICP-OES).

Item	Unit	MDL	Results					Limit
			(1)	(2)	(3)	(5)	(6)	
Soluble Lead (Pb)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	90
Soluble Antimony (Sb)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Arsenic (As)	mg/kg	3	N.D.	N.D.	N.D.	N.D.	N.D.	25
Soluble Barium (Ba)	mg/kg	10	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Soluble Cadmium (Cd)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	75
Soluble Chromium (Cr)	mg/kg	3	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Mercury (Hg)	mg/kg	3	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Selenium (Se)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	500
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/



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Note::

- N.D. = Not Detected or less than MDL
- mg/kg = ppm
- MDL = Method Detection Limit
- Results shown are the adjusted analytical results.
- Photo is included.

14. US Consumer Products Safety Improvement Act of 2008(H.R. 4040) title 1, section 101 for total lead content

Total Lead Content (in substrates)

Test method: As per CPSC-CH-E1002-08.3, by acid digestion and analysis was performed by Atomic Absorption Spectrometry (AAS).

Item	Unit	MDL	Results	Limit
			(6)	
Lead (Pb)	mg/kg	10	N.D.	100
Conclusion	/	/	Pass	/

Note:

- N.D. = Not Detected or less than MDL
- mg/kg = ppm
- MDL = Method Detection Limit
- Photo is included.



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15. Consumer Product Safety Commission 16 CFR Part 1307: Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates

Test method: As per CPSC-CH-C1001-09.4, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS).

Item	CAS No.	Unit	MDL	Results	Limit
				(6)	
Dibutyl Phthalate (DBP)	84-74-2	mg/kg	30	N.D.	1000
Benzylbutyl Phthalate (BBP)	85-68-7	mg/kg	30	N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	117-81-7	mg/kg	30	N.D.	1000
Diisononyl Phthalate (DINP)	28553-12-0/ 68515-48-0	mg/kg	100	N.D.	1000
Diisobutyl phthalate (DIBP)	84-69-5	mg/kg	30	N.D.	1000
Di-n-pentyl phthalate (DPENP)	131-18-0	mg/kg	30	N.D.	1000
Di-n-hexyl phthalate (DHEXP/DnHP)	84-75-3	mg/kg	30	N.D.	1000
Dicyclohexyl phthalate (DCHP)	84-61-7	mg/kg	30	N.D.	1000
Conclusion	/	/	/	Pass	/

Note:

- N.D. = Not Detected or less than MDL
- mg/kg = ppm
- MDL = Method Detection Limit
- Photo is included.

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16. Toy Safety Standard ST 2016 Part 3: Chemical Properties

16.1. Coloring matters in material

Test method: With reference to ST 2016 Part 3 -chemical properties Clause 1.1&2.1.

No.	Grading*	Results
1	0	Pass
2	0	Pass

Note:

- *=Requirement

As a requirement of observation, migration of coloring matter shall not be recognized Provided, however, when the test solution is prepared from textile sample , the toy is regarded as conforming to the requirement if the color obtained from such migration is not deeper than the color of the comparison standard solution.(For the toy intended for children over 3 years of age, it is regarded as conforming to this requirement if the color obtained form such migration is not deeper than the color of the solution which is three times as dense in concentration as the comparison standard solution)

- Photo is included.

16.2. Phthalates content

Test method: with reference to Toy Safety Standard ST 2016 Part 3 Chemical Properties 1.9 & 2.10

Item	Unit	MDL	Results			Limit
			(6)	(7)	(8)	
Dibutyl Phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	1000
Benzylbutyl Phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	1000
Di-n-octyl Phthalate (DNOP)	mg/kg	30	N.D.	N.D.	N.D.	1000
Diisononyl Phthalate (DINP)	mg/kg	100	N.D.	N.D.	N.D.	1000
Diisodecyl Phthalate (DIDP)	mg/kg	100	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	/

Note:

- N.D. = Not Detected or less than MDL
- mg/kg = ppm
- MDL = Method Detection Limit
- Sample (8) was tested by semi-product due to insufficient finished sample size according to the applicant's request, The applicant will undertake all differences and risk.
- Photo is included.



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17. Canada Consumer Product Safety Act (CCPSA)

17.1 Toys Regulations (SOR/2011-17)- Toxicological Hazards content

Substances in plastic materials

Test method: ASTM F963-17: Soluble element Contents (Clause 4.3.5.2) - Samples were extracted by dilute hydrochloric acid in accordance with ASTM F963-17 (Clause 8.3.5), Analysis was performed by Inductively Coupled Plasma-Optical Emission Spectrometer (ICP-OES).

Item	Unit	MDL	Results	Limit
			(6)	
Soluble Lead (Pb)	mg/kg	5	N.D.	90
Soluble Antimony (Sb)	mg/kg	5	N.D.	60
Soluble Arsenic (As)	mg/kg	3	N.D.	25
Soluble Barium (Ba)	mg/kg	10	N.D.	1000
Soluble Cadmium (Cd)	mg/kg	5	N.D.	75
Soluble Chromium (Cr)	mg/kg	3	N.D.	60
Soluble Mercury (Hg)	mg/kg	3	N.D.	60
Soluble Selenium (Se)	mg/kg	5	N.D.	500
Conclusion	/	/	Pass	/

Note::

- N.D. = Not Detected or less than MDL
- mg/kg = ppm
- MDL = Method Detection Limit
- Results shown are the adjusted analytical results.
- Photo is included.



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17.2 Consumer Products Containing Lead Regulations, SOR/2018-83

For Substrate materials-With reference to Product Safety Bureau Reference Manual Book 5-Laboratory Policies and Procedures Part B: Test method Section, Method C-02.3

Item	Unit	MDL	Results	Limit
			(6)	
Lead (Pb)	mg/kg	10	N.D.	90
Conclusion	/	/	Pass	/

Note:

- N.D. = Not Detected or less than MDL
- mg/kg = ppm
- MDL = Method Detection Limit
- Photo is included.

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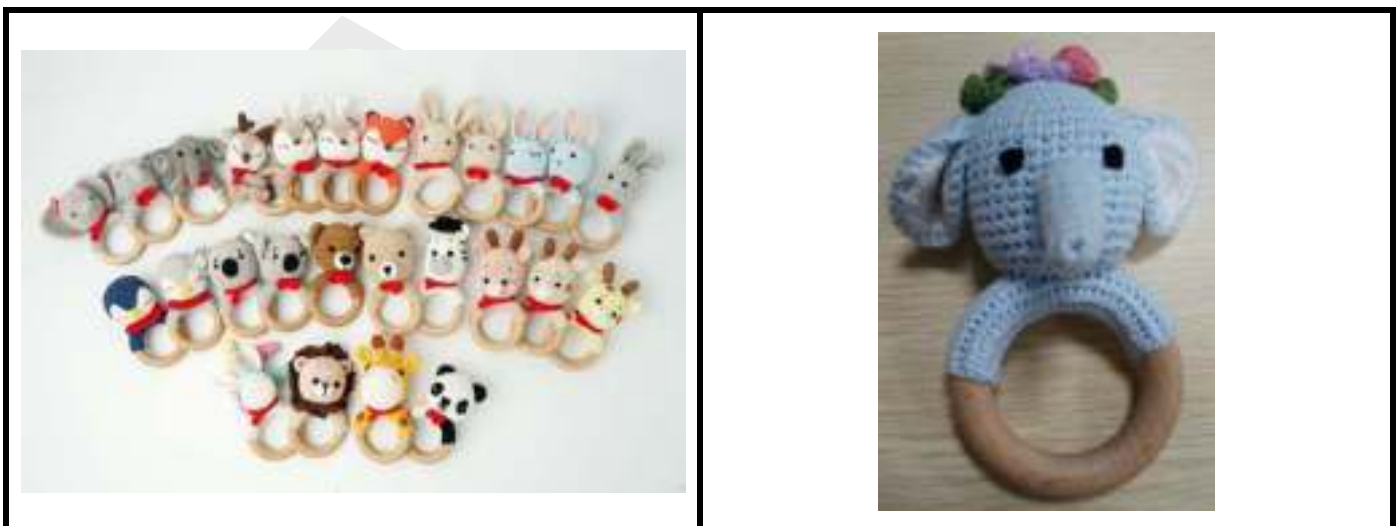
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Photograph of Sample (For Test)



Photograph provided by Client (for Reference only)



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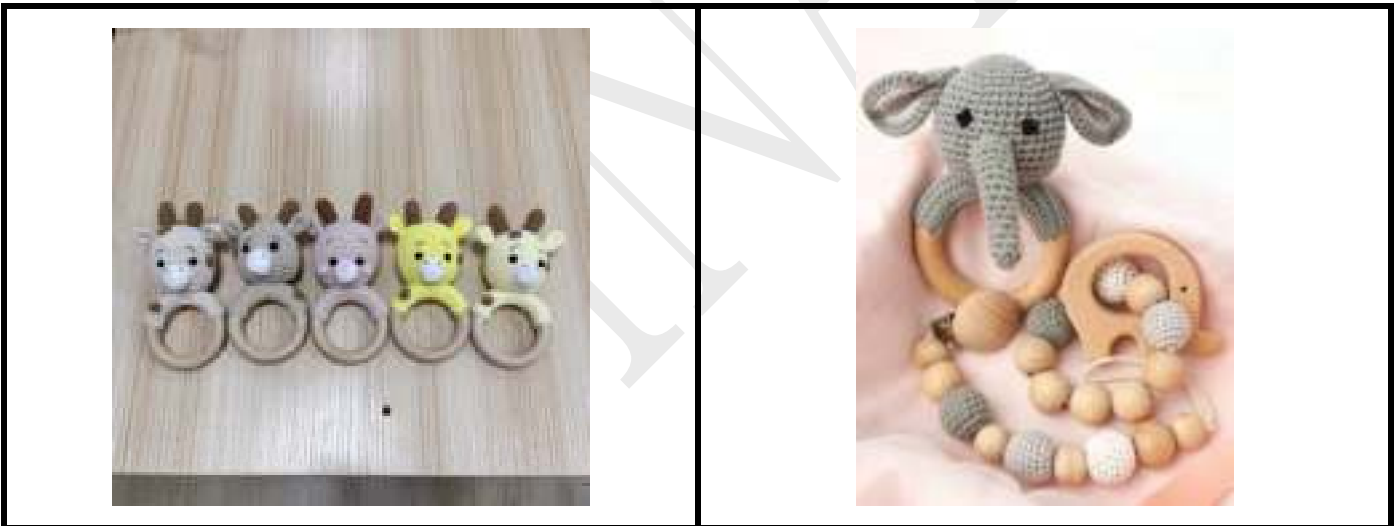
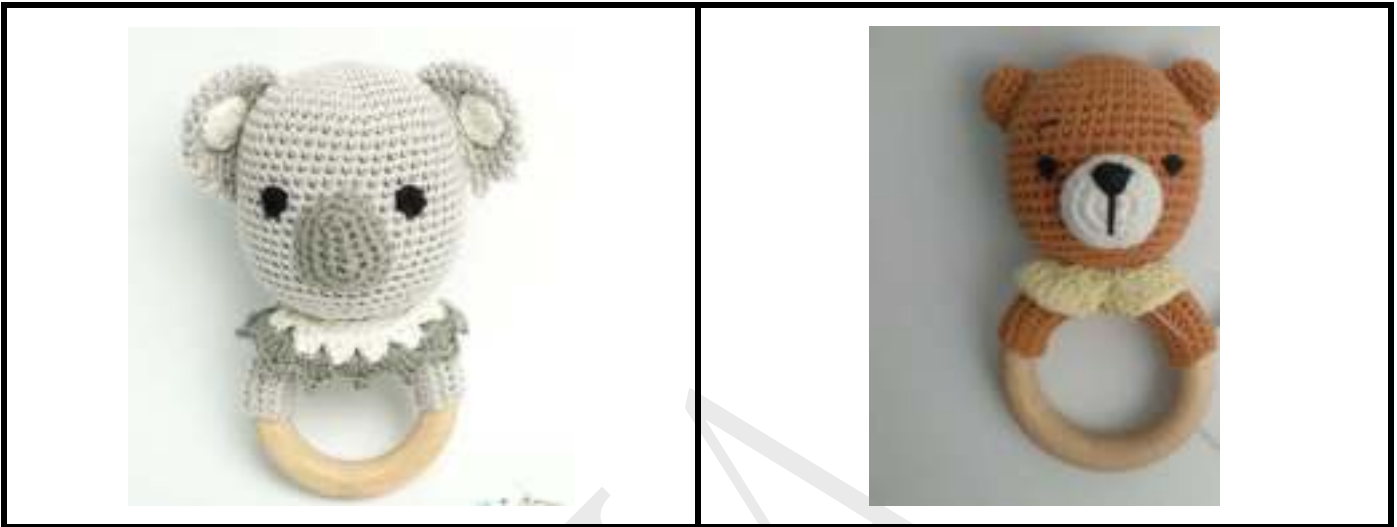


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1. This report cannot be reproduced except in full, without prior written approval of the Company.
2. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
3. This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.
4. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.
5. The information which provided by the applicant, such as sample description, sample name ,material component, style/item No. , P.O. No. , manufacture, age phase, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report.
6. The test samples were in good condition before testing.
7. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

*** End of Report ***