

TEST REPORT

REPORT No.: R2JJ171213F7579E

Date: January 30, 2018

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Xiamen Chenkai Import& Export Co., Ltd
No.10-22,Jinsan Xili, Huli District, Xiamen, China

Report on the submitted samples said to be:

Sample Description : Silicone Baby Teether
Labeled Age Grade : /
Requested Age Grade : Over 18 months of age
Appropriate Age Grade : All ages
Tested Age Grade : Over 18 months of age
Sample Receiving Date : December 13, 2017
Testing Period : From December 13, 2017 to January 30, 2018
Results : Please refer to next page(s).

Signed for and on behalf of
BACL

Checked by: Jame
Jane Xu
Technical Supervisor

Approved by: Jesse
Jesse Shang
Physical Manager

William
William Wei
Laboratory Manager

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Summary of Test Results:

<u>TEST REQUEST</u>	<u>CONCLUSION</u>
A. ASTM F963-17 Standard Consumer Safety Specification for Toy Safety	
1.Mechanical and Physical Tests	Pass*
2.Flammability Tests	Pass*
3. Toxic Elements Test	Pass
B. AS/NZS ISO 8124: Australian/New Zealand Standard on safety of toys	
1. AS/NZS ISO 8124.1:2016-Mechanical and Physical Tests	Pass*
2. AS/NZS ISO 8124.2:2016-Flammability Tests	Pass*
3. AS/NZS ISO 8124-3:2012+A1:2016-Migration of Certain Elements Tests	Pass
C. European Standard on Safety of Toys	
1. EN 71-1:2014(E) - Mechanical and Physical Properties	Pass*
2. EN 71-2:2011+A1:2014 - Flammability	Pass*
3.EN 71-3:2013+A2:2017 – Migration of Certain Elements Tests	Pass
D. Canada Consumer Product Safety Act (CCPSA) -Toys Regulations (SOR/2011-17)	
1.Mechanical and Physical Tests	Pass*
2.Flammability	Pass*
E. Commission Regulation 2014/81/EU amending Directive 2009/48/EC Annex II, Appendix C –Bisphenol A	Pass
F. US Consumer Products Safety Improvement Act of 2008(H.R. 4040) title 1, section 101 for total lead content	Pass
G. US Consumer Products Safety Improvement Act of 2008(H.R. 4040) title 1, section 108 requirement on phthalates content	Pass
H. Canada Consumer Product Safety Act (CCPSA): Phthalates Regulations, SOR/2016-188	Pass
I. Spot test of Nickel Release	Pass*
Entry 27 of Regulation (EC) No 552/2009 amending Annex XVII of Reach regulation (EC)	
J. No 1907/2006 on the rate of nickel release (formerly known as 94/27/EC and its amendment directive 2004/96/EC)	Pass

Pass*= Meet the Requirement of Client

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Results:

Tested part(s) (only for item A.1/A.2/B.1/B.2/C.1/C.2/D)

A. ASTM F963-17:

A.1. Safety Aspects Related to Mechanical and Physical Properties

<u>Section</u>	<u>Description</u>	<u>Result</u>
4	Safety requirements	
4.1	Material quality	Pass
4.3.7	Stuffing Materials	NA
4.4	Electrical/thermal energy	NA
4.5	Sound producing toys	NA
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	Pass
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	NA

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<u>Section</u>	<u>Description</u>	<u>Result</u>
4.23	Rattles	NA
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	NA
4.28	Stroller carriage toys	NA
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
6.4	Toys Intended to be Assembled by an Adult	NA
7	Producer's markings	
7.1	Producer's Name and Address	NA

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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	4 drops at 3 ft.
8.8	Torque test	4 in. lbf.
8.9	Tension test	15 lbf.

Note:

1. NA = Not Applicable
2. The test result are shown retest result, and the retest samples were provided by client on January 25, 2018.
3. No packaging was submitted with the sample, therefore the sample was not evaluated for the labeling requirements on the packaging of the ASTM F963-17.

A. 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>
Bear	DNI	Pass
Stars	DNI	Pass

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

DNI = Did Not Ignited ISE = Ignite But Self-Extinguished

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B.1. AS/NZS ISO 8124.1:2016-Safety aspects related to Mechanical and physical properties

<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	NA
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	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

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<u>Section</u>	<u>Description</u>	<u>Result</u>
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	NA
4.30	Toy scooters	NA
4.31	Magnets and magnetic components	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:

1. NA = Not Applicable
2. The test result are shown retest result, and the retest samples were provided by client on January 25, 2018.
3. No packaging was submitted with the sample, therefore the sample was not evaluated for the labeling requirements on the packaging of the AS/NZS ISO 8124.1:2016.

B.2. AS/NZS ISO 8124.2:2016 - 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	NA

Note:

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C.1. EN 71-1:2014(E)-Safety aspects related to Mechanical and physical properties

<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	NA
4.21	Toys containing a non-electrical heat source	NA
4.22	Small balls	NA
4.23	Magnets	NA
4.24	Yo-yo balls	NA
4.25	Toys attached to food	NA

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<u>Section</u>	<u>Description</u>	<u>Result</u>
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	NA
5.3	Plastic sheeting	NA
5.4	Cords, chains and electrical cables in toys	Pass
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	NA
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

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2. The test result are shown retest result, and the retest samples were provided by client on January 25, 2018.
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C.2. EN 71-2:2011+A1:2014-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	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	NA

Note:

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D.1. Canadian Toys Regulations-Safety aspects related to Mechanical and physical properties

<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	Pass
9	MECHANICAL HAZARDS - Wire frames	Pass
10	MECHANICAL HAZARDS - Plastic edges	Pass
11	MECHANICAL HAZARDS - Wood	NA
12	MECHANICAL HAZARDS - Glass	NA
13	MECHANICAL HAZARDS - Fasteners	Pass
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

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<u>Applicable Section</u>	<u>Description</u>	<u>Result</u>
18	MECHANICAL HAZARDS - Stability	NA
19	MECHANICAL HAZARDS - Decibel limit	NA
28	SPECIFIC PRODUCTS - Dolls, plush toys and soft toys - fastenings	NA
29	SPECIFIC PRODUCTS - Dolls, plush toys and soft toys - stuffing	NA
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	NA
41	ELASTICS - Length or extensibility	NA
42	YO-YO TYPE BALLS – Stretchable cords	NA

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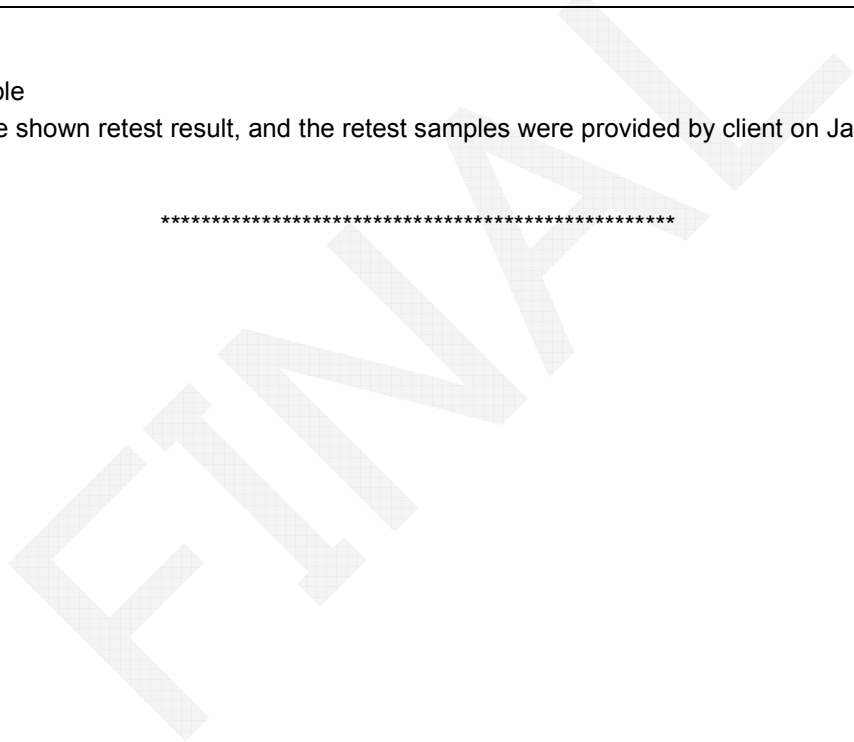
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D.2. Canadian Toys Regulations-Safety aspects related to flammability properties

<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	NA
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:

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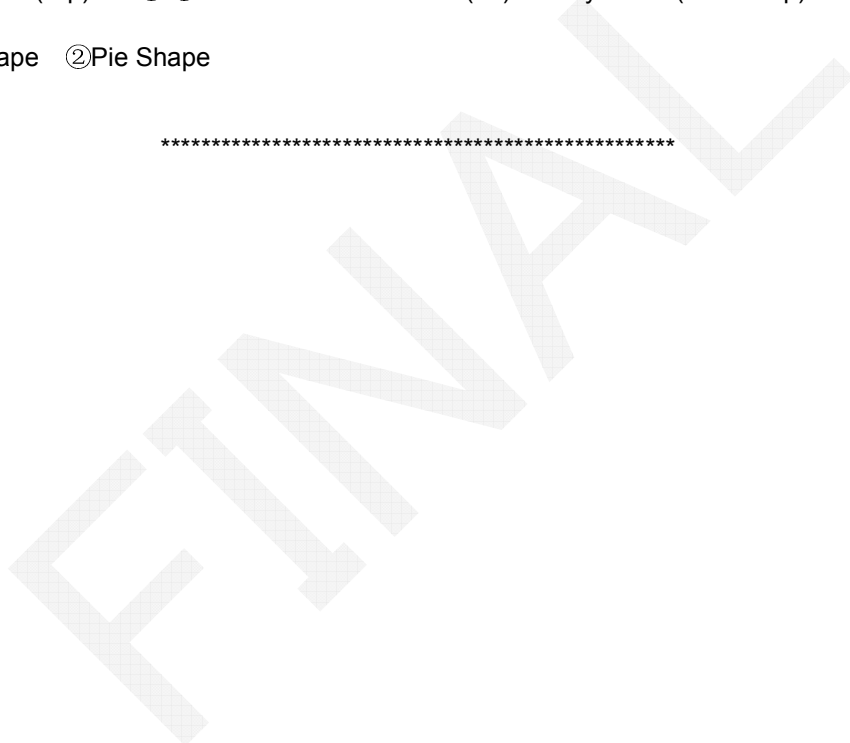
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Tested part(s) (only for item A.3/B.3/C.3/E-J)

- | | |
|---|---|
| (1) Blue plastic (big heart①/ pie②/ flat bead①.②/
bead①.②/small heart①.②/multi-angle bead①.
②/ star①.②) | (5) Silvery metal (screw of clip base)①.② |
| (2) Pink plastic (flower) ①.② | (6) Silvery metal (clip base) ①.② |
| (3) White thread ①.② | (7) Silvery metal (upper of clip) ①.② |
| (4) Translucent plastic (clip) ①.② | (8) Silvery metal (bottom of clip) ①.② |
| | (9) Silvery metal (wire of clip) ①.② |
| | (10) Silvery metal (whole clip) ①.② |

Remark: ①Heart Shape ②Pie Shape



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A.3. Toxic Elements Test

A.3.1, Total Lead Content (in substrate)

Test method: ASTM F963-17-Total Lead Content (Clause 4.3.5.2) – In accordance with ASTM F963-17 (Clause 8.3),
 Test is to be digested per the appropriate CPSC Method:
 CPSC-CH-E1002-08.3(non-metal substrates)
 CPSC-CH-E1001-08.3(metal substrates)
 Analysis was performed by Inductively Coupled Plasma-Optical Emission Spectrometer (ICP-OES) or Atomic Absorption Spectrometry (AAS)

Item	Unit	MDL	Results				Limit
			(1)+(2)	(3)	(4)	(5)	
Lead (Pb)	mg/kg	10	12	10	11	41	100
Conclusion	/	/	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Results				Limit
			(6)	(7)	(8)	(9)	
Lead (Pb)	mg/kg	10	26	35	57	35	100
Conclusion	/	/	Pass	Pass	Pass	Pass	/

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A.3.2. 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)	(4)	
Soluble Lead (Pb)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	90
Soluble Antimony (Sb)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	60
Soluble Arsenic (As)	mg/kg	3	N.D.	N.D.	N.D.	N.D.	25
Soluble Barium (Ba)	mg/kg	10	N.D.	N.D.	N.D.	N.D.	1000
Soluble Cadmium (Cd)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	75
Soluble Chromium (Cr)	mg/kg	3	N.D.	N.D.	N.D.	N.D.	60
Soluble Mercury (Hg)	mg/kg	3	N.D.	N.D.	N.D.	N.D.	60
Soluble Selenium (Se)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	500
Conclusion	/	/	Pass	Pass	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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B.3, AS/NZS ISO 8124-3:2012+A1:2016-Migration of Certain Elements Tests

Test method: With reference to AS/NZS ISO 8124-3:2012+A1:2016. Analysis was performed by Inductively Coupled Plasma-Optical Emission Spectrometer (ICP-OES)

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

Note:

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

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C.3 European Standard on Safety of Toys: EN 71-3:2013+A2:2017 – Migration of Certain Elements Tests

Test Method: With reference to EN 71-3:2013+A2:2017. Analysis was performed by Inductively Coupled Plasma-Optical Emission Spectrometer (ICP-OES), Inductively coupled plasma mass spectrometry (ICP-MS), Gas chromatographic-mass spectrometer (GC-MS), Liquid chromatographic in combination with ICP-MS (LC-ICP-MS), Ion chromatographic (IC-UV)

Element	Unit	MDL	Results				Limit		
			(1)	(2)	(3)	(4)	Category I	Category II	Category III
Aluminium (Al)	mg/kg	10	N.D.	N.D.	N.D.	N.D.	5625	1406	70000
Antimony (Sb)	mg/kg	10	N.D.	N.D.	N.D.	N.D.	45	11.3	560
Arsenic (As)	mg/kg	10	N.D.	N.D.	N.D.	N.D.	3.8	0.9	47
Barium (Ba)	mg/kg	10	N.D.	N.D.	N.D.	N.D.	1500	375	18750
Boron (B)	mg/kg	10	N.D.	N.D.	N.D.	N.D.	1200	300	15000
Cadmium (Cd)	mg/kg	5	N.D.	N.D.	N.D.	N.D.	1.3	0.3	17
Chromium (III) (Cr III)	mg/kg	10	N.D.	N.D.	N.D.	N.D.	37.5	9.4	460
Chromium(VI) (CrVI)	mg/kg	0.02	N.D.	N.D.	N.D.	N.D.	0.02	0.005	0.2
Cobalt (Co)	mg/kg	10	N.D.	N.D.	N.D.	N.D.	10.5	2.6	130
Copper (Cu)	mg/kg	10	N.D.	N.D.	N.D.	N.D.	622.5	156	7700
Lead (Pb)	mg/kg	10	N.D.	N.D.	N.D.	N.D.	13.5	3.4	160
Manganese (Mn)	mg/kg	10	N.D.	N.D.	N.D.	N.D.	1200	300	15000
Mercury (Hg)	mg/kg	10	N.D.	N.D.	N.D.	N.D.	7.5	1.9	94
Nickel (Ni)	mg/kg	10	N.D.	N.D.	N.D.	N.D.	75	18.8	930
Selenium (Se)	mg/kg	10	N.D.	N.D.	N.D.	N.D.	37.5	9.4	460
Strontium (Sr)	mg/kg	10	N.D.	N.D.	N.D.	N.D.	4500	1125	56000
Tin (Sn)	mg/kg	4	N.D.	N.D.	N.D.	N.D.	15000	3750	180000
Organic Tin*	mg/kg	0.2	N.D.	N.D.	N.D.	N.D.	0.9	0.2	12
Zinc (Zn)	mg/kg	10	N.D.	N.D.	N.D.	N.D.	3750	938	46000
Conclusion	/	/	Pass	Pass	Pass	Pass	/	/	/

Pass=Meet the requirement of Category III

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Remark 1:

Category I: in dry, brittle, powder-like or pliable toy material
Category II: in liquid or sticky toy material
Category III: in scraped-off toy material

Remark 2:

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

Remark 3:

*= Result(s) of organic tin was (were) calculated while assuming the tin content wholly contributed from tributyltin cation unless specified.
If soluble tin content exceeded the screening limits of organic tin content, the result(s) was (were) verified by below method:
- EN71-3:2013+A2:2017, Annex G by Gas Chromatography-Mass Spectroscopy analysis.

Note:

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

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E. Commission Regulation 2014/81/EU amending Directive 2009/48/EC Annex II, Appendix C –Bisphenol A

Test method: With reference to EN71-10:2005 & EN71-11:2005, Analysis was performed by liquid chromatography/quadrupole mass spectrometer(LC/MS/MS)

Item	CAS No.	Unit	MDL	Results			Migration Limit
				(1)	(2)	(4)	
Bisphenol A	80-05-7	mg/l	0.1	N.D.	N.D.	N.D.	0.1
Conclusion	/	/	/	Pass	Pass	Pass	/

Note:

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

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

Total Lead Content (In Substrate)

Test method: With reference to CPSC-CH-E1001-08.3,/CPSC-CH-E1002-08.3,by acid digestion and analysis was performed by Inductively Coupled Plasma-Optical Emission Spectrometer (ICP-OES) or Atomic Absorption Spectrometry (AAS)

Item	Unit	MDL	Results				Limit
			(1)+(2)	(3)	(4)	(5)	
Lead (Pb)	mg/kg	10	12	10	11	41	100
Conclusion	/	/	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Results				Limit
			(6)	(7)	(8)	(9)	
Lead (Pb)	mg/kg	10	26	35	57	35	100
Conclusion	/	/	Pass	Pass	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.
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G. US Consumer Products Safety Improvement Act of 2008(H.R. 4040) title 1, section 108 requirement on phthalates content

Test method: With reference to CPSC-CH-C1001-09.3, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS)

Item	Unit	MDL	Results		Limit
			(1)+(2)	(4)	
Dibutyl Phthalate (DBP)	%	0.003	N.D.	N.D.	0.1
Benzylbutyl Phthalate (BBP)	%	0.003	N.D.	N.D.	0.1
Bis-(2-ethylhexyl) Phthalate (DEHP)	%	0.003	N.D.	N.D.	0.1
Di-n-octyl Phthalate (DNOP)	%	0.003	N.D.	N.D.	0.1
Diisononyl Phthalate (DINP)	%	0.01	N.D.	N.D.	0.1
Diisodecyl Phthalate (DIDP)	%	0.01	N.D.	N.D.	0.1
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
- "+"= 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.
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H. Canada Consumer Product Safety Act (CCPSA): Phthalates Regulations, SOR/2016-188

Test method: With reference to Product Safety Bureau Reference Manual Book 5-Laboratory Policies and Procedures Part B: Test method Section, Method C-34, Analysis was performed by gas chromatographic-mass spectrometer (GC-MS)

Item	Unit	MDL	Results		Limit
			(1)+(2)	(4)	
Dibutyl Phthalate (DBP)	mg/kg	30	N.D.	N.D.	1000
Benzylbutyl Phthalate (BBP)	mg/kg	30	N.D.	N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	30	N.D.	N.D.	1000
Di-n-octyl Phthalate (DNOP)	mg/kg	30	N.D.	N.D.	1000
Diisononyl Phthalate (DINP)	mg/kg	100	N.D.	N.D.	1000
Diisodecyl Phthalate (DIDP)	mg/kg	100	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	/

Remark:

1. The vinyl in a toy or child care article must contain not more than 1000 mg/kg of bis-(2-ethylhexyl) phthalate (DEHP), dibutyl phthalate (DBP) or benzyl butyl phthalate (BBP) when tested in accordance with a method that conforms to good laboratory practices.
2. The vinyl in any part of a toy or child care article that can, in a reasonably foreseeable manner, be placed in the mouth of a child under four years of age must contain not more than 1000 mg/kg of diisononyl phthalate (DINP), diisodecyl phthalate (DIDP) or di-n-octyl phthalate (DNOP) when tested in accordance with a method that conforms to good laboratory practices

Note:

- N.D. = Not Detected or less than MDL
- MDL = Method Detection Limit
- % = Percentage by weight
- 0.1% = 1000mg/kg, 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.
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I. Spot test of Nickel Release

Test method: With reference to PD CR 12471:2002

Item	Results	Client's Limit
	(10)	
Spot test of Nickel Release	Negative	Negative
Conclusion	Pass	/

Note:

- Negative result means:
No colour change indicates an absence of nickel release, and a negative result should be reported. However, such a result should be interpreted cautiously since these tests are of short duration and the test conditions are not comparable with those in EN 1811:2011+A1:2015. The apparent absence of nickel release should be confirmed by EN 1811:2011+A1:2015 or EN 12472:2005+A1:2009 (followed by EN 1811:2011+A1:2015), as appropriate.
- Photo is included.

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J. Entry 27 of Regulation (EC) No 552/2009 amending Annex XVII of Reach regulation (EC) No 1907/2006 on the rate of nickel release (formerly known as 94/27/EC and its amendment directive 2004/96/EC)

Test method: With reference to EN 12472:2005+A1:2009 and EN 1811:2011+A1:2015, analysis was performed by Inductively Coupled Plasma-Optical Emission Spectrometer (ICP-OES) or Atomic Absorption Spectrometry (AAS).

Sample	Unit	Sample Areas(cm ²)	Volume of test solution(ml)	MDL	Results			Limit	Conclusion
					a	b	c		
(5)	µg/cm ² /week	1.3	1.3	0.1	N.D.	N.D.	0.27	See Remark	Pass
(6)	µg/cm ² /week	9.8	9.8	0.1	N.D.	N.D.	N.D.	See Remark	Pass
(7)	µg/cm ² /week	8.0	8.0	0.1	N.D.	N.D.	N.D.	See Remark	Pass
(8)	µg/cm ² /week	7.7	7.7	0.1	N.D.	N.D.	N.D.	See Remark	Pass
(9)	µg/cm ² /week	2.0	2.0	0.1	N.D.	N.D.	N.D.	See Remark	Pass

- I The rate of nickel release from those parts of such products coming into direct and prolonged contact with the skin will not exceed 0.5 µg/cm²/week (migration limit).
- II In all post assemblies which are inserted into pierced ears and other pierced parts of the human body unless the rate of nickel release from such post assemblies is less than 0.2µg/cm²/week (migration limit).

EN 1811:2011+ A1:2015 Clause 9.2 and Annex A:

III Requirement and Result Interpretation:

- 1、 For products coming into direct and prolonged contact with the skin
 - 1.1、 Nickel release result < 0.88µg/cm²/week = PASS
 - 1.2、 Nickel release result ≥ 0.88µg/cm²/week = FAIL

- 2、 For post assemblies which are inserted into pierced ears and other pierced parts of the human body
 - 2.1、 Nickel release result < 0.35µg/cm²/week = PASS
 - 2.2、 Nickel release result ≥ 0.35µg/cm²/week = FAIL

IV a, b, c are three parallel samples.

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Note:

- N.D. = Not Detected or less than MDL
- MDL = Method Detection Limit
- Samples (5)-(9) were tested by raw material due to insufficient finished sample size according to the applicant's request, The applicant will undertake all differences and risk.
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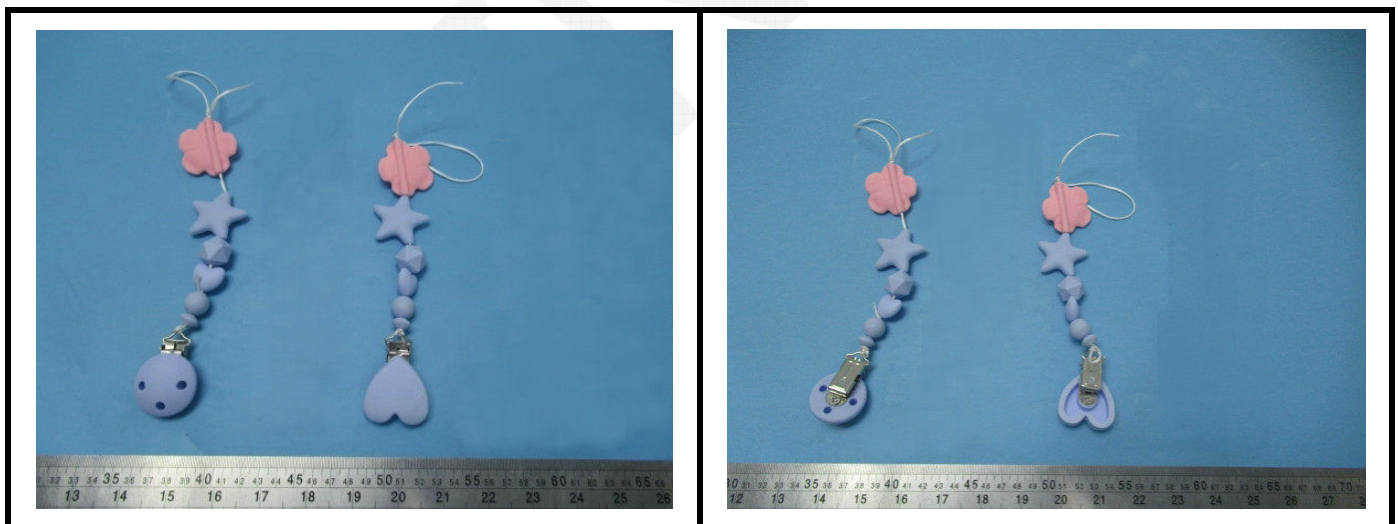
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Photograph of Sample(Only for Physical test)



Photograph of Sample(Only for chemistry test)



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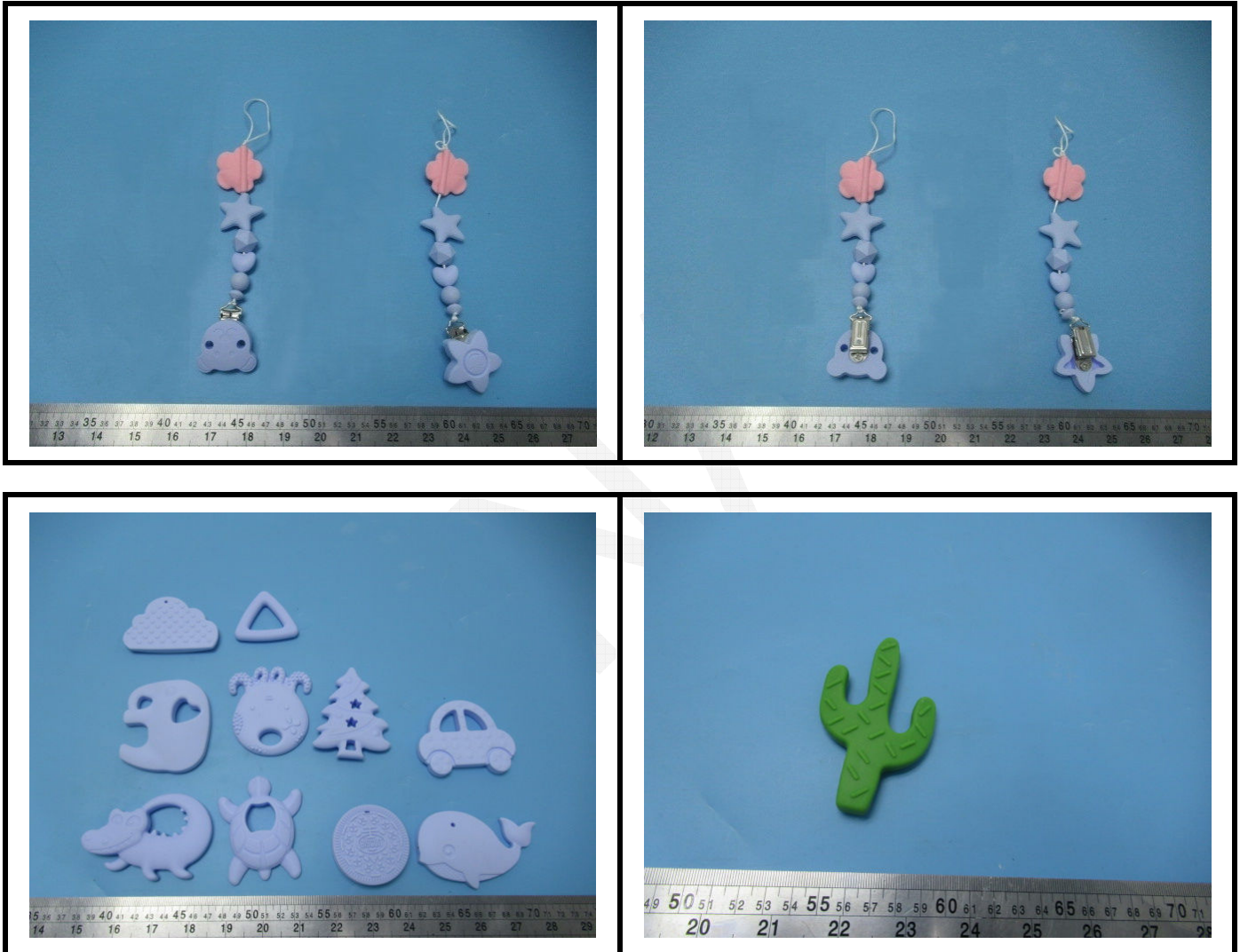
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Photograph of Sample(Only for chemistry reference)



BACL authenticate the photo on original report only

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