

TEST REPORT

REPORT No.: RSZ160302B0255E

Date: March 9, 2016

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Report on the submitted samples said to be:

Sample Name : Silicone Jewelry
Tested Age Grading :
Manufacturer :
Factory :
Sample Receiving Date : March 2, 2016
Testing Period : March 2, 2016 – March 8, 2016
Result : Please refer to next page(s).

Signed for and on behalf of

BACL

Checked by: Candance
Candance Yu
Engineer

Approved by: Jordan Wang
Jordan Wang
Technical Supervisor

Leo Gao
Leo Gao
Lab Manager



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Summary of Test Result:

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CONCLUSION

A	ASTM F963-11 Standard Consumer Safety Specification for Toy Safety	
	1.Mechanical and Physical Tests	Pass
	2.Flammability Tests	Pass
	3.Toxic Elements Test	Pass
B	CPSC for Toy Safety	
	1.Mechanical and Physical Tests	Pass
	2.Flammability Tests	Pass
	3.Total Lead Content	NA
C	US Consumer Products Safety Improvement Act of 2008(H.R. 4040) title 1, section 101 for total lead content in substrate	Pass
D	US Consumer Products Safety Improvement Act of 2008(H.R. 4040) title 1, section 108 requirement on phthalates content	Pass

NA = Not Applicable

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Result:

Tested part(s) (only for chemical test items):

- (1) Black silicone (bead/biscuit)
- (2) Black plastic(joint)
- (3) Black fabric(ropes)

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A.1. ASTM F963-11 - Mechanical and Physical Tests

<u>Section</u>	<u>Description</u>	<u>Result</u>
4	Safety requirements	
4.1	Material quality	Pass
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	NA
4.12	Plastic film	NA
4.13	Folding mechanisms and hinges	NA
4.14	Cords and elastics in toys	Pass
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	NA
4.24	Squeeze toys	NA

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<u>Section</u>	<u>Description</u>	<u>Result</u>
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
5	Labeling requirements	*
6	Instructional literature	*
7	Producer's markings	*

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*= Client does not provide packaging and instruction for use of sample.

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A.2. ASTM F963-11 - Flammability

Flammability test of material

Ref.: ASTM F963-11 Section 4.2

Method used: ASTM F963-11 Annex A5: Flammability Testing Procedure for Solids and Soft Toys

Result : Pass

Sample

Silicone Jewelry (necklace)

Burn rate (in/sec.)

DNI

Result

Pass

Note: In accordance with the ASTM F963, the burning rate should not be greater than 0.1 inch per second. All components of submitted samples were tested, the above result only showed the most severe burn rate of the tested samples.
DNI = Did Not Ignite IBE = Ignited But Extinguished

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A.3. ASTM F963-11 for Toxic Elements Test

1. Total Lead Content (in substrates)

Test method: ASTM F963-11-Total Lead Content (Clause 4.3.5.2) - In accordance with ASTM F963-11 (Clause 8.3), Test is to be digested per the appropriate CPSC Method:

CPSC-CH-E1001-08.3(metal substrates)

CPSC-CH-E1002-08.3(non- metal substrates)

Analysis was performed by inductively coupled plasma atomic emission spectrometer (ICP-AES) or Atomic Absorption Spectrometry (AAS).

Item	Unit	MDL	Result		Limit
			(1)	(2)	
Lead Content (Pb)	mg/kg	10	<10	<10	100 mg/kg
Conclusion	/	/	Pass	Pass	/

Note:

- < = Less than
- MDL = Method Detection Limit

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2. Heavy Metals Content (in substrates)

Test method: ASTM F963-11: Soluble element Contents (Clause 4.3.5.2) - Samples were extracted by dilute hydrochloric acid in accordance with ASTM F963-11 (Clause 8.3.5), Analysis was performed by inductively coupled plasma atomic emission spectrometer (ICP-AES)

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

Note:

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B. CPSC for toy safety

B.1. Safety aspects related to Mechanical and physical properties

<u>Section</u>	<u>Description</u>	<u>Result</u>
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
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	NA
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

NA = Not Applicable

Use and abuse testing:

<u>Section</u>	<u>Description</u>	<u>Test Condition</u>
16 CFR 1500.51	Drop test	10 drops at 4.5 ft.
16 CFR 1500.53	Torque test	4 in-lbs.
16 CFR 1500.53	Tension test	15 lbs.
16 CFR 1500.53	Compression test	NA.

B.2. Flammability

Flammability test of material

Method used: FHSA 16 CFR 1500.44: Method for determining extremely flammable and flammable solids.

Result: Pass

<u>Sample</u>	<u>Burn rate (in/sec.)</u>	<u>Result</u>
Silicone Jewelry (necklace)	DNI	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.

All components of submitted samples were tested, the above result only showed the most severe burn rate of the tested samples.

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IBE = Ignited But Extinguished

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B.3. U.S. CPSC CFR Title 16 Part 1303 on Total Lead Content

Remark: As the submitted sample(s) without coating, this item is not applicable.

C. 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 atomic emission spectrometer (ICP-AES) or Atomic Absorption Spectrometry (AAS).

Item	Unit	MDL	Result		Limit
			(1)	(2)	
Lead Content (Pb)	mg/kg	10	<10	<10	100 mg/kg
Conclusion	/	/	Pass	Pass	/

Note:

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D. 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	Result		Limit
			(1)	(2)	
Dibutyl Phthalate (DBP)	mg/kg	30	<30	<30	1000mg/kg
Benzylbutyl Phthalate(BBP)	mg/kg	30	<30	<30	1000mg/kg
Bis-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	30	<30	<30	1000mg/kg
Di-n-octyl Phthalate(DNOP)	mg/kg	30	<30	<30	1000mg/kg
Diisononyl Phthalate (DINP)	mg/kg	60	<60	<60	1000mg/kg
Diisodecyl Phthalate(DIDP)	mg/kg	60	<60	<60	1000mg/kg
Conclusion	/	/	Pass	Pass	/

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- MDL = Method Detection Limit
- Photo appendix is included.

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Appendix

Photograph of Sample



BACL authenticate the photo on original report only

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