

# TEST REPORT

REPORT No.: RSZ1405201411F-P8

Date: MARCH 20, 2014

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ShenZhen Changsheng Silicone Product Co., Ltd  
No.11 Jigutian Industry Park of Nanyue, Longgang,Shenzhen,China

This report supersedes RSZ1405201411F which was generated on March 10, 2014.

Report on the submitted samples said to be:

Sample Name : Silicone Jewelry  
Tested Age Grading : 6 months up  
Manufacturer : Changsheng  
Factory : Changsheng  
Sample Receiving Date : Feb 12, 2014  
Testing Period : Feb 22, 2014 – Mar , 2014  
Results : Please refer to next page(s).

Signed for and on behalf of  
BACL

Checked by:

*Candance*

Candance Yu  
Engineer

Approved by:

*Evan*

Evan Huang  
Technical Supervisor

*Lance*

Lance Lee  
Technical Supervisor

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**Summary of Test Results:**

<u>TEST REQUEST</u>	<u>CONCLUSION</u>
A European Standard on Safety of Toys	
1.EN 71-1:2011+A2:2013 - Mechanical and Physical Properties	Pass
2.EN 71-2:2011 - Flammability	Pass
3.EN 71-3: 2013 - Migration of Certain Elements Tests in the components of submitted sample as the requirement of client	---
B Entries 51 and 52 of Regulation (EC) No 552/2009 amending Annex XVII of Regulation (EC) No 1907/2006 (REACH) on Phthalates (DBP, BBP, DEHP, DNOP, DINP, DIDP) content in the components of submitted sample as the requirement of client (formerly known as 2005/84/EC)	---

“---“ = Inconclusion

\*\*\*\*\*

FEMTA

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**Result:**

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

- (1) White plastic(joint)
- (2) Green silicone(chain)
- (3) Green fabric(rop)

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FINAL

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## A.1. EN71-1-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	NA
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	NA
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	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	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	*2

NA = Not Applicable

\*2 = Client does not provide packaging and instruction for use of sample.

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## A.2. EN71-2-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 play	NA
4.4	Toys intended to be entered by a child	NA
4.5	Soft-filled toys	NA

NA = Not Applicable

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## A.3. EN 71-3: 2013 – Migration of Certain Elements Tests

Test Method: With reference to EN 71-3:2013. Analysis was performed by inductively coupled plasma atomic emission spectrometer (ICP-AES), Gas chromatographic-mass spectrometer (GC-MS), Ion Chromatography-UV-Vis (IC-UV-Vis)

Element	Unit	Results			Limit	
		(1)	(2)	(3)	Category III	
					2009/48/EC	2009/48/EC & 2013/492/EU
Aluminium (Al)	mg/kg	57	<50	<50	70000	70000
Antimony (Sb)	mg/kg	<10	<10	<10	560	60
Arsenic (As)	mg/kg	<10	<10	<10	47	25
Barium (Ba)	mg/kg	<10	<10	<10	18750	1000
Boron (B)	mg/kg	<50	<50	<50	15000	15000
Cadmium (Cd)	mg/kg	<10	<10	<10	17	17
Chromium (III) (Cr III)	mg/kg	<10	<10	<10	460	460
Chromium(VI) (CrVI)	mg/kg	<0.2	<0.2	<0.2	0.2	0.2
Cobalt (Co)	mg/kg	<10	<10	<10	130	130
Copper (Cu)	mg/kg	<50	<50	<50	7700	7700
Lead (Pb)	mg/kg	<10	<10	<10	160	90
Manganese (Mn)	mg/kg	<50	<50	<50	15000	15000
Mercury (Hg)	mg/kg	<10	<10	<10	94	60
Nickel (Ni)	mg/kg	<50	<50	<50	930	930
Selenium (Se)	mg/kg	<10	<10	<10	460	460
Strontium (Sr)	mg/kg	<50	<50	<50	56000	56000
Tin (Sn)	mg/kg	<50	<50	<50	180000	180000
Organic Tin*	mg/kg	<2.5	<2.5	<2.5	12	12
Zinc (Zn)	mg/kg	<50	<50	<50	46000	46000
<b>Conclusion</b>	/	<b>Pass</b>	<b>Pass</b>	<b>Pass</b>	/	/

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Remark I:

Category III: in scraped-off toy material

Remark II:

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

Remark III:

- \*= 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 part 3:2013, Annex G by Gas Chromatography-Mass Spectroscopy analysis.

Note:

- < = Less than
- MDL = Method Detection Limit

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**B、Entries 51 and 52 of Regulation (EC) No 552/2009 amending Annex XVII of Regulation (EC) No 1907/2006 (REACH) on Phthalates (DBP, BBP, DEHP, DNOP, DINP, DIDP) content (formerly known as 2005/84/EC)**

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

Item	Unit	MDL	Results		Limit
			(1)	(2)	
Dibutyl Phthalate (DBP)	mg/kg	30	<30	<30	See Remark
Benzylbutyl Phthalate (BBP)	mg/kg	30	<30	<30	
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	30	<30	<30	
DBP + BBP + DEHP	mg/kg	/	/	/	
Di-n-octyl Phthalate (DNOP)	mg/kg	30	<30	<30	
Diisononyl Phthalate (DINP)	mg/kg	100	<100	<100	
Diisodecyl Phthalate (DIDP)	mg/kg	100	<100	<100	
DNOP + DINP + DIDP	mg/kg	/	/	/	
<b>Conclusion</b>	/	/	<b>Pass</b>	<b>Pass</b>	/

Remark:

- i Phthalates of DEHP, DBP and BBP shall not be used as substances or as constituents of preparations, at concentrations greater than 1000mg/kg by mass of the plasticized material in toys and child care articles.
- ii Phthalates of DINP, DIDP and DNOP shall not be used as substances or as constituents of preparations, at concentrations greater than 1000mg/kg by mass of the plasticized material in toys and child care articles which can be placed in the mouth by children.

Note:

- < = Less than
- MDL = Method Detection Limit
- The results less than MDL are not taken into account while calculating the sum contents.
- Photo appendix is included

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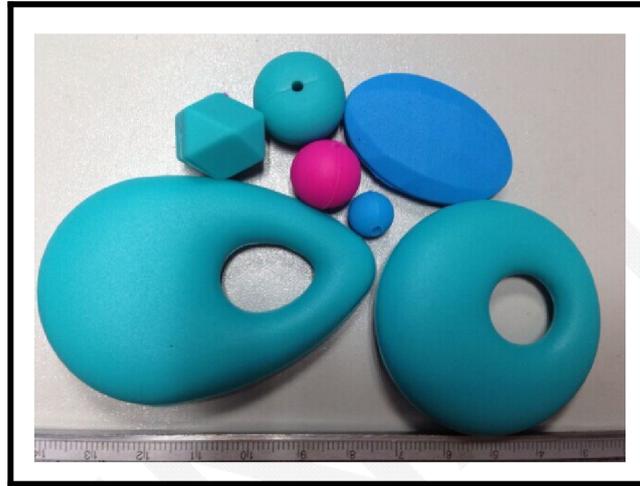
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## Appendix

Photograph of Sample



BACL authenticate the photo on original report only

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