



## STC Test Report



TESTING  
CNAS L3428

Date :2009-12-31  
No. :DP215716

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- Applicant (DAG001)** : QUANZHOU HOOSAM GIFTS MFG.CO.,LTD  
QINGMENG INDUSTRIAL AREA,QUANZHOU,FUJIAN,CHINA  
TEL:86-595-22470188 FAX:86-595-22470199
- Description of Samples** : SILICONE RUBBER BANDS  
ITEM NO.:NE-001,NE-002,NE-003,NE-004,NE-005,NE-006,NE-007,NE-008,NE-009  
NE-010,NE-011,NE-012,NE-013  
COUNTRY OF ORIGIN:CHINA
- Date Samples Received** : 2009-12-24
- Date Tested** : 2009-12-24 to 2009-12-29
- Investigation Requested** : 1.European Standard for Safety of Toys  
- EN71-1:2005 +A4:2007  
- EN71-2:2006 +A1:2007  
- EN71-3:1994 +A1:2000+AC:2002  
2.ASTM Standard Consumer Safety Specification on Toy Safety,  
F963-07<sup>E1</sup>:  
- physical and mechanical tests  
- flammability test  
- heavy metals content  
3. USA Consumer Product Safety Improvement Act (HR4040)  
- Children's products containing lead - Total Lead content in  
paint and surface coating in accordance with Sec. 101 (f) and  
16 CFR 1303.  
- Children's products containing lead - Total Lead content in  
accordance with Sec. 101(a).  
- Phthalates content in accordance with Sec 108  
4. Phthalates content in accordance with EU Decision 2005/84/EC

HUANG Gui-you, Eugene  
Toys and Children's Products Departm  
For and on behalf of  
STC(DongGuan) Company Ltd



STC (Dongguan) Company Limited

68 Fumin Nan Road, Dalang, Dongguan, China. (Zip Code: 523770)

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- Conclusions** :
- EN71-1:2005+A4:2007  
Apart from clause 7.1, the submitted sample(s) **complied** with the test requirement.
  - EN71-2:2006+A1:2007  
The submitted sample(s) **complied** with the test requirement.
  - EN71-3:1994+A1:2000+AC:2002  
The submitted sample(s) **complied** with the test requirement.
  - ASTM F963-07<sup>E1</sup>: physical and mechanical tests  
Apart from clause 5.2 and 7.1, the submitted sample(s) **complied** with the test requirement
  - ASTM F963-07<sup>E1</sup>: flammability test  
The submitted sample(s) **complied** with the test requirement.
  - ASTM F963-07<sup>E1</sup>: heavy metals content  
The submitted sample(s) **complied** with the test requirement.
  - USA Consumer Product Safety Improvement Act (HR4040), Total Lead content in paint and surface coating, Sec 101 (f) and 16 CFR 1303  
The submitted sample **complied** with the test requirement.
  - USA Consumer Product Safety Improvement Act (HR4040), Total Lead content in children's products, Sec 101(a)  
The submitted sample **complied** with the test requirement.
  - USA Consumer Product Safety Improvement Act (HR4040), phthalates content in accordance with Sec 108  
The submitted sample **complied** with the test requirement.
  - Phthalates content in accordance with EU Decision 2005/84/EC  
The submitted sample(s) **complied** with the test requirement.

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### AGE GRADING:

The sample did not contain an age grade, however, it was considered appropriate for children of Age 3 And Up.

### AGE GRADING FOR TESTING:

Age 3 And Up.

### TEST RESULTS:

#### 1. EN71

##### 1.1 EN71-1:2005+A4:2007 - Part 1: Mechanical and physical tests

<u>Applicable Clause</u>	<u>Description</u>	<u>Result</u>
4	<u>General requirements</u>	
4.1	Materials	Pass
4.7	Edges	Pass
4.8	Points and wires	Pass
5	<u>Toys intended for children Age 3 And Up.</u>	
5.1	General requirements	Pass
7	<u>Marking and instructions for use</u>	
7.1	General	*1

#### \*\* CE mark\*\*

\*1 = The manufacturer or his authorized representative or the importer into the community shall affix the CE marking as given in European Council Directive 93/68/EEC of 22 July 1993 as declaration of presumption of conformity with the essential safety requirements of the European Council Directive 88/378/EEC of 3 May 1988 concerning the safety of toys.

##### 1.2 EN 71-2: 2006+A1:2007-Part2: Flammability test

<u>Applicable Clause</u>	<u>Description</u>	<u>Result</u>
4.1	General	Pass

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1.3 EN71-3:1994+A1:2000+AC:2002 - Part 3: Migration of certain elements  
Method used: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

MATERIAL:

SILICONE MATERIAL

- (a) NE-001,NE-002
- (b) NE-003, NE-004

DETAIL:

- (c) NE-005,NE-006
- (d) NE-007,NE-008
- (e) NE-009,NE-010
- (f) NE-011,NE-012,NE-013

	a	b	c	Limit
Soluble Lead.....	<2mg/kg	<2mg/kg	<2mg/kg	90mg/kg
Soluble Cadmium.....	<2mg/kg	<2mg/kg	<2mg/kg	75mg/kg
Soluble Chromium.....	<2mg/kg	<2mg/kg	<2mg/kg	60mg/kg
Soluble Barium.....	2mg/kg	<2mg/kg	4mg/kg	1000mg/kg
Soluble Antimony.....	<2mg/kg	<2mg/kg	<2mg/kg	60mg/kg
Soluble Arsenic.....	<2mg/kg	<2mg/kg	<2mg/kg	25mg/kg
Soluble mercury.....	<2mg/kg	<2mg/kg	<2mg/kg	60mg/kg
Soluble Selenium.....	<2mg/kg	<2mg/kg	<2mg/kg	500mg/kg

  

	d	e	f	Limit
Soluble Lead.....	<2mg/kg	4mg/kg	2mg/kg	90mg/kg
Soluble Cadmium.....	<2mg/kg	<2mg/kg	<2mg/kg	75mg/kg
Soluble Chromium.....	<2mg/kg	<2mg/kg	<2mg/kg	60mg/kg
Soluble Barium.....	31mg/kg	3mg/kg	3mg/kg	1000mg/kg
Soluble Antimony.....	<2mg/kg	<2mg/kg	<2mg/kg	60mg/kg
Soluble Arsenic.....	<2mg/kg	<2mg/kg	<2mg/kg	25mg/kg
Soluble mercury.....	<2mg/kg	<2mg/kg	<2mg/kg	60mg/kg
Soluble Selenium.....	<2mg/kg	<2mg/kg	<2mg/kg	500mg/kg

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2. ASTM F 963-07<sup>E1</sup>

2.1 Mechanical and physical hazards tests

Ref.: ASTM F963-07<sup>E1</sup>

Applicable requirements before and after use and abuse testing:

<u>Applicable Section</u>	<u>Description</u>	<u>Result</u>
4	<u>Safety requirements</u>	
4.1	Material quality	Pass
4.2	Flammability	Pass
4.6	Small objects	Pass
4.7	Accessible edges	Pass
4.9	Accessible points	Pass
5	<u>Labeling requirements</u>	
5.1	Federal government requirements	Pass
5.2	Age grading labeling	* <sup>2</sup>
7	<u>Producer's markings</u>	
7.1	Producer's markings	* <sup>3</sup>

\*<sup>2</sup> = See age grading

\*<sup>3</sup> = No all information

Use and abuse testing:

<u>Applicable Clause</u>	<u>Description</u>	<u>Test Condition</u>
8.5	Normal use testing	
8.6	Abuse testing	
8.7	Impact tests	PASS.
8.8	Torque tests	PASS.
8.9	Tension tests	PASS.
8.10	Compression	PASS.

2.2 Flammability test of material other than textiles of sample group

Ref. : ASTM F963-07<sup>E1</sup> Clause 4.2

Method used: FHSA 16 CFR 1500.44

Result: pass

The sample did not ignite

Note: In accordance with the FHSA, the burning rate should not be greater Than 0.1 inch per second

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2.3 Heavy metals analysis  
Ref.: ASTM F963-07<sup>E1</sup> Clause 4.3.5  
Determined by: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

### Total lead analysis

#### Coating Material:

- (a) NE-001,NE-002
- (b) NE-003, NE-004
- (c) NE-005,NE-006
- (d) NE-007,NE-008

Sample	Result	Limit
a	0.004%	0.06%
b	<0.001%	0.06%
c	<0.001%	0.06%
d	0.004%	0.06%

### Soluble metals test

#### Coating Material:

- (a) NE-001,NE-002
- (b) NE-003, NE-004
- (c) NE-005,NE-006
- (d) NE-007,NE-008

	a	b	c	Limit
Soluble Lead.....	<2ppm	<2ppm	4ppm	90ppm
Soluble Cadmium.....	<2ppm	<2ppm	<2ppm	75ppm
Soluble Chromium.....	<2ppm	<2ppm	<2ppm	60ppm
Soluble Barium.....	4ppm	31ppm	3ppm	1000ppm
Soluble Antimony.....	<2ppm	<2ppm	<2ppm	60ppm
Soluble Arsenic.....	<2ppm	<2ppm	<2ppm	25ppm
Soluble Mercury.....	<2ppm	<2ppm	<2ppm	60ppm
Soluble Selenium.....	<2ppm	<2ppm	<2ppm	500ppm

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	d	Limit
Soluble Lead.....	2ppm	90ppm
Soluble Cadmium.....	<2ppm	75ppm
Soluble Chromium.....	<2ppm	60ppm
Soluble Barium.....	3ppm	1000ppm
Soluble Antimony.....	<2ppm	60ppm
Soluble Arsenic.....	<2ppm	25ppm
Soluble Mercury.....	<2ppm	60ppm
Soluble Selenium.....	<2ppm	500ppm

### 3 USA Consumer Product Safety Improvement Act (HR4040)

- (1) Children's products containing lead - Total Lead content in paint and surface coating  
Ref.: 16 CFR 1303  
Determined by: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

#### Coating Material:

SILICONE MATERIAL

- (a) NE-001,NE-002
- (b) NE-003, NE-004
- (c) NE-005,NE-006
- (d) NE-007,NE-008

Sample	Result	Limit	Limit (beginning 14 August 2009)
a	0.004%	0.06%	0.009%
b	<0.001%	0.06%	0.009%
c	<0.001%	0.06%	0.009%
d	0.004%	0.06%	0.009%

- (2) Children's products containing lead - Total Lead content  
Determined by: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

#### SILICONE MATERIAL:

- (a) NE-001,NE-002
- (b) NE-003, NE-004

Sample	Result	Limit	Limit (beginning 14 August 2009)
a	<10ppm	600ppm	300ppm
b	<10ppm	600ppm	300ppm

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- (3) Phthalates content  
Method used: Gas Chromatography with Mass Selective Detector

SILICONE MATERIAL:

- (a) NE-001,NE-002  
(b) NE-003, NE-004

Other Material:

- (c) NE-005,NE-006  
(d) NE-007,NE-008  
(e) NE-009,NE-010  
(f) NE-011,NE-012,NE-013

	<u>a</u>	<u>b</u>
- Di-n-butyl phthalate (DBP)	<0.005%	<0.005%
- Benzyl-n-butyl phthalate (BBP)	<0.005%	<0.005%
- Di (2-ethylhexyl) phthalate (DEHP)	<0.005%	<0.005%
	<u>c</u>	<u>d</u>
- Di-n-butyl phthalate (DBP)	<0.005%	<0.005%
- Benzyl-n-butyl phthalate (BBP)	<0.005%	<0.005%
- Di (2-ethylhexyl) phthalate (DEHP)	0.006%	<0.005%
	<u>e</u>	<u>f</u>
- Di-n-butyl phthalate (DBP)	<0.005%	<0.005%
- Benzyl-n-butyl phthalate (BBP)	<0.005%	<0.005%
- Di (2-ethylhexyl) phthalate (DEHP)	<0.005%	<0.005%

Requirement: Each of the above phthalates shall not be greater than 0.1% by mass of the tested material.

	<u>a</u>	<u>b</u>
- Di-n-octyl phthalate (DNOP)	<0.005%	<0.005%
- Diisononyl phthalate (DINP)	<0.01%	<0.01%
- Diisodecyl phthalate (DIDP)	<0.01%	<0.01%

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-	Di-n-octyl phthalate (DNOP)	<sup>c</sup> <0.005%	<sup>d</sup> <0.005%
-	Diisononyl phthalate (DINP)	<0.01%	<0.01%
-	Diisodecyl phthalate (DIDP)	<0.01%	<0.01%
-	Di-n-octyl phthalate (DNOP)	<sup>e</sup> <0.005%	<sup>f</sup> <0.005%
-	Diisononyl phthalate (DINP)	<0.01%	<0.01%
-	Diisodecyl phthalate (DIDP)	<0.01%	<0.01%

Requirement: Each of the above phthalates shall not be greater than 0.1% by mass of the tested material which can be placed in the mouth by children.

- 4 Phthalate content  
Ref.: EU Directive 2005/84/EC  
Method used: Gas Chromatography with Mass Selective Detector

SILICONE MATERIAL:

- (a) NE-001,NE-002  
(b) NE-003, NE-004

Other Material:

- (c) NE-005,NE-006  
(d) NE-007,NE-008  
(e) NE-009,NE-010  
(f) NE-011,NE-012,NE-013

Full name	a	Limit
Di-n-butyl phthalate (DBP)	Not detected	The total content(DBP+BBP+DEHP) less than 0.1% (w/w)
Benzyl-n-butyl phthalate (BBP)	Not detected	
Di-2-ethylhexyl phthalate (DEHP)	Not detected	
Di-n-octyl phthalate (DNOP)	Not detected	The total content(DNOP+DINP+DIDP) less than 0.1% (w/w)
Diisononyl phthalate (DINP)	Not detected	
Diisodecyl phthalate (DIDP)	Not detected	

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Full name	b	Limit
Di-n-butyl phthalate (DBP)	Not detected	The total content(DBP+BBP+DEHP) less than 0.1% (w/w)
Benzyl-n-butyl phthalate (BBP)	Not detected	
Di-2-ethylhexyl phthalate (DEHP)	Not detected	
Di-n-octyl phthalate (DNOP)	Not detected	The total content(DNOP+DINP+DIDP) less than 0.1% (w/w)
Diisononyl phthalate (DINP)	Not detected	
Diisodecyl phthalate (DIDP)	Not detected	

Full name	c	Limit
Di-n-butyl phthalate (DBP)	Not detected	The total content(DBP+BBP+DEHP) less than 0.1% (w/w)
Benzyl-n-butyl phthalate (BBP)	Not detected	
Di-2-ethylhexyl phthalate (DEHP)	0.006%	
Di-n-octyl phthalate (DNOP)	Not detected	The total content(DNOP+DINP+DIDP) less than 0.1% (w/w)
Diisononyl phthalate (DINP)	Not detected	
Diisodecyl phthalate (DIDP)	Not detected	

Full name	d	Limit
Di-n-butyl phthalate (DBP)	Not detected	The total content(DBP+BBP+DEHP) less than 0.1% (w/w)
Benzyl-n-butyl phthalate (BBP)	Not detected	
Di-2-ethylhexyl phthalate (DEHP)	Not detected	
Di-n-octyl phthalate (DNOP)	Not detected	The total content(DNOP+DINP+DIDP) less than 0.1% (w/w)
Diisononyl phthalate (DINP)	Not detected	
Diisodecyl phthalate (DIDP)	Not detected	

Full name	e	Limit
Di-n-butyl phthalate (DBP)	Not detected	The total content(DBP+BBP+DEHP) less than 0.1% (w/w)
Benzyl-n-butyl phthalate (BBP)	Not detected	
Di-2-ethylhexyl phthalate (DEHP)	Not detected	
Di-n-octyl phthalate (DNOP)	Not detected	The total content(DNOP+DINP+DIDP) less than 0.1% (w/w)
Diisononyl phthalate (DINP)	Not detected	
Diisodecyl phthalate (DIDP)	Not detected	

Full name	f	Limit
Di-n-butyl phthalate (DBP)	Not detected	The total content(DBP+BBP+DEHP) less than 0.1% (w/w)
Benzyl-n-butyl phthalate (BBP)	Not detected	
Di-2-ethylhexyl phthalate (DEHP)	Not detected	
Di-n-octyl phthalate (DNOP)	Not detected	The total content(DNOP+DINP+DIDP) less than 0.1% (w/w)
Diisononyl phthalate (DINP)	Not detected	
Diisodecyl phthalate (DIDP)	Not detected	

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Notes: Method detection limit for DBP, BBP, DEHP and DNOP = 0.005% (W/W)  
Method detection limit for DIDP and DINP = 0.01% (W/W)

**\*\*\*\*\* End of Test Report \*\*\*\*\***

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### Appendix for Photos of the Submitted Sample(s)



External view



Marking

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