



中国认可  
国际互认  
检测  
TESTING  
CNAS L5772

# Test Report



Report No.:PTC22012200802C-EN01

Issue Date: Feb.10,2022

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**Applicant:** Shenzhen Wo Silicone Tech Co., Ltd  
**Address:** 1ST FLOOR, NO.42, 2ND ROAD HANTANG, HENGGANG TOWN, LONGGANG DISTRICT, SHENZHEN, CHINA

The following merchandise was (were) submitted and identified by client as:

**Sample Name:** Educational toy, Teether, Ball, Car  
**Colour:** yellow, dark blue, light grey, sand, mokka, pink, green, stone green  
**Age Group for Testing:** 0+  
**Applicant's Specified Age Group for Testing:** 0+  
**Country of Origin:** China  
**Manufacturer:** Shenzhen Wo Silicone Tech Co., Ltd  
**Address:** 1ST FLOOR, NO.42, 2ND ROAD HANTANG, HENGGANG TOWN, LONGGANG DISTRICT, SHENZHEN, CHINA  
**Sample Received Date:** Jan.22, 2022  
**Completed Date:** Jan.25, 2022

**Test Requested and Conclusion(s):** Please refer to next page(s).



Prepare by: Anne

Checked by: Allie

Approved by: Miya( Chemical) Tim Mo(Physical)

Anne

Allie

Miya

Tim Mo

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**Test Requested and Conclusion(s):**

No.	Test Sample	Standard and Requirement	Conclusion(s)
1)	Submitted sample	EN 71-1:2014+A1:2018 European Standard for Safety of Toys - Mechanical and Physical Properties	PASS
2)	Submitted sample	EN 71-2:2020 European Standard for Safety of Toys - Flammability	PASS
3)	Submitted sample	EN 71-3:2019+A1:2021 European Standard for Safety of Toys - Migration of Certain Elements	PASS
4)	Submitted sample	Entry 51 &52 of the Annex XVII of REACH Regulation (EC) No 1907/2006 & amended (EC) No. 552/2009 (Namely former Directive 2005/84/EC). - Phthalates	PASS

**Test Result(s):** Please refer to next page(s).

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## Test Result(s):

### 1) EN 71-1:2014+A1:2018 European Standard for Safety of Toys

#### Mechanical and Physical Properties

Section	Test Item	Assessment
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
4.13	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	Projectile toys	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

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Section	Test Item	Assessment
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	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	PASS
5.10	Small balls	PASS
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	PASS
7	Warnings ,markings and instructions for use	
7.1	General	NA
7.2	Toys not intended for children under 36 months	NA
7.3	Latex balloons	NA

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Section	Test Item	Assessment
7.4	Aquatic toys	NA
7.5	Functional toys	NA
7.6	Hazardous sharp functional edges and points	NA
7.7	Projectile toys	NA
7.8	Imitation protective masks and helmets	NA
7.9	Toy kites	NA
7.10	Roller skates, inline skates, skateboards and certain other ride-on toys	NA
7.11	Toys intended to be attached to or strung across a cradle, cot, or perambulator	NA
7.12	Liquid-filled teethers	NA
7.13	Percussion caps specifically designed for use in toys	NA
7.14	Acoustics	NA
7.15	Toy bicycles	NA
7.16	Toys intended to bear the mass of a child	NA
7.17	Toys comprising monofilament fibres	NA
7.18	Toy scooters	NA
7.19	Rocking horses and similar toys	NA
7.20	Magnetic/electrical experimental sets	NA
7.21	Toys with electrical cables exceeding 300 mm in length	NA
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months	NA
7.23	Toys intended to be attached to a cradle, cot, or perambulator	NA
7.24	Sledges with cords for pulling	NA
7.25	Flying toys	NA
7.26	Improvised projectiles	NA

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Note: 1. NA = Not Applicable

## Test Result(s):

### 2) EN 71-2:2020 European Standard for Safety of Toys

#### Flammability

Section	Test Item	Assessment
4.1	General requirements	PASS
4.2	Toys to be worn on the head	NA
4.3	Toys disguise costumes and toys intended to 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: NA = Not Applicable

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## Test Result(s):

### 3) EN 71-3:2019+A1:2021 European Standard for Safety of Toys

Migration of Certain Elements

Method: As per EN71-3:2019 , analyzed by Inductively Coupled Plasma Mass Spectrometry (ICP-MS), Gas Chromatograph-Mass Spectrometry (GC-MS) and ion chromatograph .

Substance	RL (mg/kg)	Result (mg/kg)				
		1	2	3	4	5
Aluminium (Al)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Antimony (Sb)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Arsenic (As)	2.5	N.D.	N.D.	N.D.	N.D.	N.D.
Barium (Ba)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Boron (B)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium(III) (Cr <sup>3+</sup> )	2.0	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium(VI) (Cr <sup>6+</sup> )	0.005	N.D.	N.D.	N.D.	N.D.	N.D.
Cobalt (Co)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Copper (Cu)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Manganese (Mn)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Nickel (Ni)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Selenium (Se)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Strontium (Sr)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Tin (Sn)	2.5	N.D.	N.D.	N.D.	N.D.	N.D.
Organic tin☆	0.1	N.D.	N.D.	N.D.	N.D.	N.D.
Zinc (Zn)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
<b>Conclusion</b>		PASS	PASS	PASS	PASS	PASS

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Substance	RL (mg/kg)	Result (mg/kg)				
		6	7	8	9	10
Aluminium (Al)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Antimony (Sb)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Arsenic (As)	2.5	N.D.	N.D.	N.D.	N.D.	N.D.
Barium (Ba)	5.0	N.D.	N.D.	N.D.	N.D.	23
Boron (B)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium(III) (Cr <sup>3+</sup> )	2.0	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium(VI) (Cr <sup>6+</sup> )	0.005	N.D.	N.D.	N.D.	N.D.	N.D.
Cobalt (Co)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Copper (Cu)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Manganese (Mn)	5.0	N.D.	N.D.	N.D.	N.D.	15
Mercury (Hg)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Nickel (Ni)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Selenium (Se)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Strontium (Sr)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
Tin (Sn)	2.5	N.D.	N.D.	N.D.	N.D.	N.D.
Organic tin☆	0.1	N.D.	N.D.	N.D.	N.D.	N.D.
Zinc (Zn)	5.0	N.D.	N.D.	N.D.	N.D.	N.D.
<b>Conclusion</b>		PASS	PASS	PASS	PASS	PASS

- Note:**
1. mg/kg = part per million (ppm).
  2. N.D. = Not Detected (< RL).
  3. RL = Report Limit.
  4. "☆" = The migration of organic tin is expressed as tributyltin.

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## The table of Migration Elements limit:

Substance	Limit (mg/kg)		
	Dry, brittle, powder-like or pliable toy material	Liquid or sticky toy material	Scraped-off toy material
Aluminium (Al)	2250	560	28130
Antimony (Sb)	45	11.3	560
Arsenic (As)	3.8	0.9	47
Barium (Ba)	1500	375	18750
Boron (B)	1200	300	15000
Cadmium (Cd)	1.3	0.3	17
Chromium(III) (Cr <sup>3+</sup> )	37.5	9.4	460
Chromium(VI) (Cr <sup>6+</sup> )	0.02	0.005	0.053
Cobalt (Co)	10.5	2.6	130
Copper (Cu)	622.5	156	7700
Lead (Pb)	2.0	0.5	23
Manganese (Mn)	1200	300	15000
Mercury (Hg)	7.5	1.9	94
Nickel (Ni)	75	18.8	930
Selenium (Se)	37.5	9.4	460
Strontium (Sr)	4500	1125	56000
Tin (Sn)	15000	3750	180000
Organic tin ◇	0.9	0.2	12
Zinc (Zn)	3750	938	46000

**Note:** "◇" = Organic tin include Methyl tin, Dimethyltin, Butyltin, Dibutyl tin, Tributyl tin, Monoctyltin, Tetrabutyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin, Triphenyl tin.

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## Test Result(s):

4) Entry 51 &52 of the Annex XVII of REACH Regulation (EC) No 1907/2006 & amended (EC) No. 552/2009 (Namely former Directive 2005/84/EC).

Phthalates

Method:ISO 8124-6:2018, analyzed by Gas Chromatograph-Mass Spectrometry (GC-MS).

Substances	DBP	BBP	DEHP	DIBP	DNOP	DIDP	DINP	Conclusion	
CAS No.	84-74-2	85-68-7	117-81-7	84-69-5	117-84-0	26761-40-0 68515-49-1	28553-12-0 68515-48-0		
Limit (ppm)	SUM: 1000				SUM: 1000				
RL (ppm)	50	50	50	50	50	50	50		
Material No.	Result (ppm)								
1+2+3	56	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS	
4+5+6	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS	
7+8	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS	
9	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	PASS	

- Note:**
1. mg/kg = part per million (ppm).
  2. N.D. = Not Detected (< RL).
  3. RL = Report Limit.
  4. The DBP, DEHP, BBP and DIBP shall not be used as substances or in mixtures, in concentrations greater than 1000mg/kg by weight of the plasticised material, in toys and childcare articles.
  5. The DINP, DIDP and DNOP shall not be used as substances or in mixtures, in concentrations greater than 1000mg/kg by weight of the plasticised material, in toys and childcare articles which can be placed in the mouth by children.

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## Test Material List

The following material(s) apply only to the sample(s) submitted for chemical testing.

Material No.	Description	Location
1	Yellow silicone	Ring / ball / rocket / teether / bucket / car
2	Pink silicone	Ring / ball / rocket / teether / bucket
3	Off-white silicone	Ring / rocket / bucket
4	Green silicone	Ring / car / teether
5	Greyish-green silicone	Ring / five-pointed / car
6	Deep blue silicone	Ring / rocket / triangle / car / teether / bucket
7	Light grey silicone	Ball / rocket / car / bucket / teether / small ring
8	Light brown silicone	Rocket / bucket
9	White plastic	Wheel of car
10	Nature wood	Car / educational toy / teether

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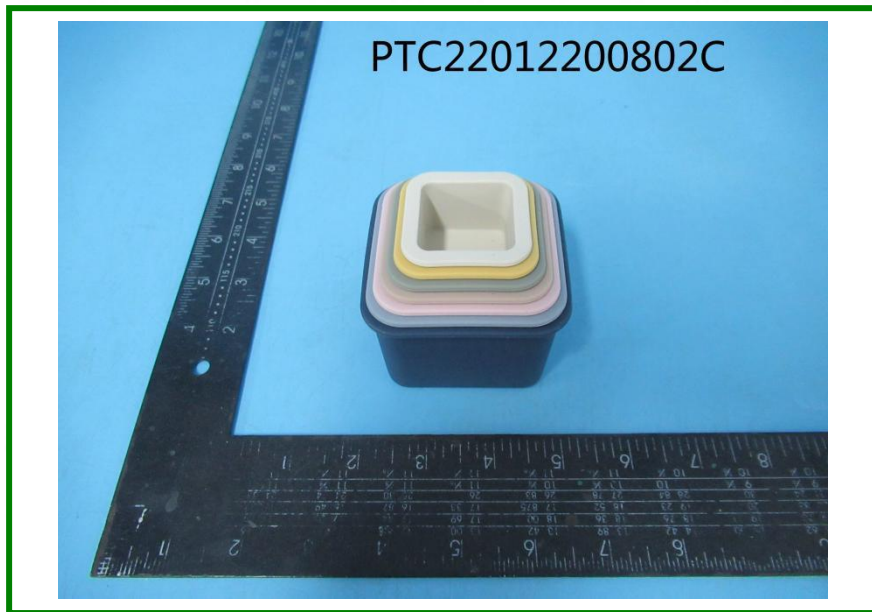
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Photo(s) of Sample:



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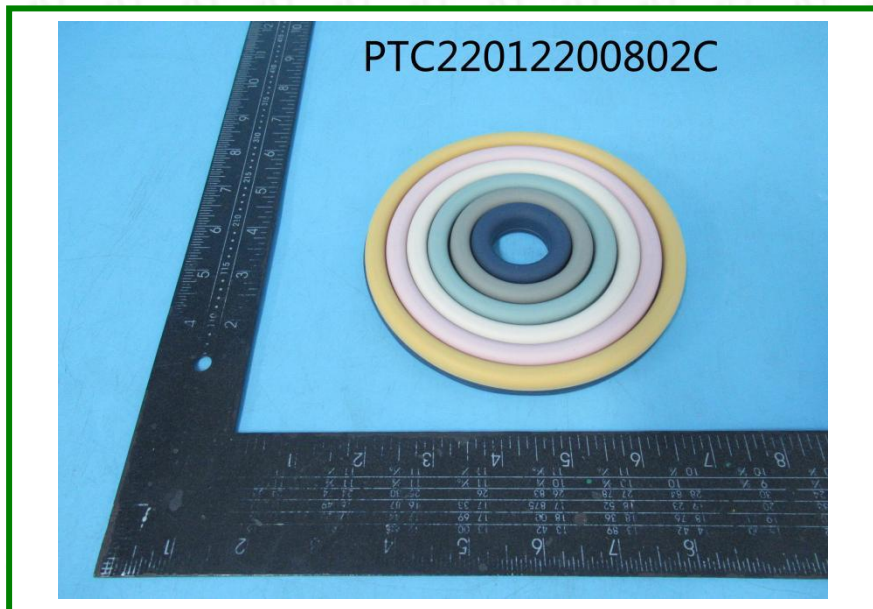


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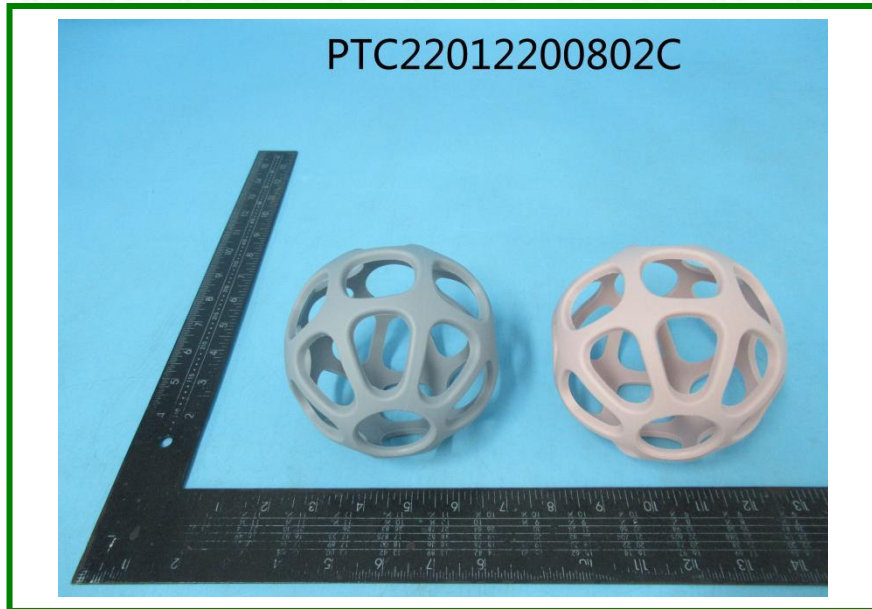


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