



# Test Report

No. A220623056002

Date: Jun 29, 2022

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SHENZHEN HUAMING JUN RUBBER CO., LTD  
NO.1 LIANYU LANE, KENGZI STREET, PINGSHAN DISTRICT, SHENZHEN, GUANGDONG, CHINA 518122

Sample Description/Name:	SILICONE TOYS	Sample Quantity:	/
Style No.:	SEE THE SAMPLE LIST	Buyer:	SHENZHEN HUAMING JUN RUBBER CO., LTD
Order No. :	/	Supplier:	/
Vendor:	/	Manufacture:	/
Packaging provide:	/	Other Information:	/
Labeled Age Grading :	3 YEARS OF AGE AND UP	Country of Origin:	SHENZHEN
Requested Age grading:	AGE 3+	Country of Destination:	/
Age group applied in testing:	3 YEARS OF AGE AND UP	Content:	/
Sample Receive Date:	Jun 23, 2022	Report Date:	Jun 29, 2022
Test Period:	From Jun 23, 2022 to Jun 28, 2022		

### SUMMARY OF TEST RESULTS

TEST REQUESTED	CONCLUSION	REMARK
European Standard Safety of toys - Part 1: Mechanical and physical properties EN 71-1:2014+A1:2018	PASS	-
European Standard Safety of toys - Part 2: Flammability Tests EN 71- 2:2020	PASS	-
European Standard Safety of toys - Part 3: The migration of certain elements in Category III - Scraped off toy material EN 71-3:2019+A1:2021	PASS	-

Signed for and on behalf of  
Annray Testing And  
Certification(Guangdong) Co., Ltd.

Ocean Chen Supervisor, Chemical Lab

Signed for and on behalf of  
Annray Testing And  
Certification(Guangdong) Co., Ltd.

Ivy Sun Manager, Physical Lab



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### SAMPLE LIST:

No.	Style No.	Sample Description
A	DT-080	Magic cube
B	LT-0318	Bubble Fidget with suction
C	RB-001	Reusable water balloon with magnet

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### RESULTS:

#### European standard Safety of toys - Part 1: Mechanical and physical properties EN 71-1:2014+A1:2018

Section	Test Item	Result
4.1	Material Cleanliness	PASS
4.2	Assembly	PASS
4.3	Flexible Plastic Sheeting	NA
4.4	Toy Bags	PASS
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	-
4.10.1	Folding and sliding mechanisms	NA
4.10.2	Driving Mechanisms	NA
4.10.3	Hinges	NA
4.10.4	Springs	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	-
4.14.1	Toys which a child can enter	NA
4.14.2	Masks and helmets	NA
4.15	Stability and Over-Load Requirements	-
4.15	Toys intended to bear the mass of a child	NA
4.15.1	Toys propelled by a child or by other means	NA
4.15.2	Toy bicycles	NA
4.15.3	Rocking horses and similar toys	NA
4.15.4	Toys not propelled by a child	NA
4.16	Heavy immobile toys	NA
4.17	Projectiles toys	NA
4.18	Aquatic Toys And Inflatable Toys	NA

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### RESULTS:

#### European standard Safety of toys - Part 1: Mechanical and physical properties EN 71-1:2014+A1:2018

Section	Test Item	Result
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 (Pls refer to Appendix F)	NA
4.22	Small balls	NA
4.23	Magnets	NA
4.24	Yo-Yo balls	NA
4.25	Toys Attached To Food	NA
4.26	Toys disguise costumes	NA
4.27	Flying toys	NA
5	Toys intended for children under 36 months	NA
5.1	General requirement	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 toys	NA
5.7	Glass and porcelain	NA
5.8	Shape and size of certain toys	NA
5.9	Toys comprising monofilament fibers	NA
5.10	Small balls	NA
5.11	Play figures	NA
5.12	Hemispheric shaped toys	NA
5.13	Suction cup	NA
5.14	Straps intended to be worn fully or partially around the neck	NA
6	Packaging	PASS

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## RESULTS:

### European standard Safety of toys - Part 1: Mechanical and physical properties EN 71-1:2014+A1:2018

Section	Test Item	Result
7	Warnings, markings and Instructions for use	-
7.1*	General	PASS
7.2	Toys not intended for children under 36 months	NA
7.3	Latex Balloons	NA
7.4	Aquatic Toys	NA
7.5	Functional Toys	NA
7.6	Hazardous sharp Functional Edges and Points	NA
7.7	Projectiles	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 strung across a cradle, cot, or perambulator	NA
7.12	Liquid-filled teethingers	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 fibers	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 300mm in length	NA
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months	NA

Note / Key : NA = Not applicable                      NR=Not Requested                      NT = Not tested(as per client's request)  
As customer's request Clause 5.8 will not be evaluated.

Remark:                      \*=The test results evaluated based on the design draft provided by the client.

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### RESULTS:

#### European standard Safety of toys - EN 71 Part 2:2020 - Flammability Tests

Section	Test Item	Result
4	Requirements	-
4.1	General requirements	PASS
4.2	Toys to be worn on the head	NA
4.2.1	General	NA
4.2.2	Beards, moustaches, wigs, etc., made from hair, pile or material with similar features, which protrude 50mm or more from the surface of the toy	NA
4.2.3	Beards, moustaches, wigs, etc., made from hair, pile or material with similar features, which protrude less than 50mm from the surface of the toy	NA
4.2.4	Full or partial moulded head masks	NA
4.2.5	Flowing elements of toys to be worn on the head, hoods, head-dresses, etc.and masks not covered by 4.2.4 which partially or fully cover the head, but excluding those items covered by 4.3	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 / Key : NA = Not applicable

NR=Not Requested

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### RESULTS:

Sample Item	Sample Description	Location	Style
1	Clear laminated green printed white paper with adhesive	Sticker of magic cube	A
2	Clear laminated yellow printed white paper with adhesive	Sticker of magic cube	A
3	Clear laminated red printed white paper with adhesive	Sticker of magic cube	A
4	Clear laminated white paper with adhesive	Sticker of magic cube	A
5	Clear laminated orange printed white paper with adhesive	Sticker of magic cube	A
6	Clear laminated blue printed white paper with adhesive	Sticker of magic cube	A
7	Black plastic	Magic cube	A
8	White soft plastic	Bubble	B
9	Black soft plastic	Bubble	B
10	Silvery metal	Fastener	B
11	Silvery metal	Bead	B
12	Silvery metal	Connector of bead	B
13	Transparent green soft plastic	Water balloon	C
14	Mint soft plastic	Side of water balloon	C
15	Silvery magnet	Magnet	C

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## RESULTS:

### Migration of Certain Elements - European Standard EN 71 Part 3:2019+A1:2021

Test Method : European Standard EN71-3:2019+A1:2021.

Class: Category III - Scraped off toy material

Analyte	Requirement (mg/kg)	MDL (mg/kg)	Result (mg/kg)					
	Category III		Sample ID					
			1	2	3	4	5	6
Aluminium (Al)	28130	2	6	2	3	ND	14	4
Arsenic (As)	47	2	ND	ND	ND	ND	ND	ND
Boron (B)	15000	2	ND	2	ND	4	2	3
Barium (Ba)	18750	2	ND	ND	6	ND	4	ND
Cadmium (Cd)	17	2	ND	ND	ND	ND	ND	ND
Cobalt (Co)	130	2	ND	ND	ND	ND	ND	ND
Chromium III (Cr III)	460	2	ND	ND	ND	ND	ND	ND
Chromium VI (Cr VI)	0.053	0.025	ND	ND	ND	ND	ND	ND
Copper (Cu)	7700	2	ND	5	ND	13	ND	ND
Mercury (Hg)	94	2	ND	ND	ND	ND	ND	ND
Manganese (Mn)	15000	2	4	4	4	4	5	4
Nickel (Ni)	930	2	ND	ND	ND	ND	ND	ND
Lead (Pb)	23	2	ND	ND	ND	ND	ND	ND
Antimony (Sb)	560	2	ND	ND	ND	ND	ND	ND
Selenium (Se)	460	2	ND	ND	ND	ND	ND	ND
Tin (Sn)	180000	2	ND	ND	ND	ND	ND	ND
Organic tin	12	-	ND	ND	ND	ND	ND	ND
Strontium (Sr)	56000	2	26	26	26	28	27	26
Zinc (Zn)	46000	2	5	6	ND	16	ND	ND
Mass of trace amount (gram)		-	-	-	-	-	-	-
<b>Conclusion</b>		-	PASS	PASS	PASS	PASS	PASS	PASS



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## RESULTS:

Analyte	Requirement (mg/kg)	MDL (mg/kg)	Result (mg/kg)					
	Category III		Sample ID					
			7	8	9	13	14	15
Aluminium (Al)	28130	2	8	3	2	4	ND	ND
Arsenic (As)	47	2	ND	ND	ND	ND	ND	ND
Boron (B)	15000	2	3	2	4	2	ND	ND
Barium (Ba)	18750	2	4	ND	2	ND	3	2
Cadmium (Cd)	17	2	ND	ND	ND	ND	ND	ND
Cobalt (Co)	130	2	ND	ND	ND	ND	ND	ND
Chromium III (Cr III)	460	2	ND	ND	ND	ND	ND	4.5
Chromium VI (Cr VI)	0.053	0.025	ND	ND	ND	ND	ND	0.0359
Copper (Cu)	7700	2	4	2	4	11	ND	ND
Mercury (Hg)	94	2	ND	ND	ND	ND	ND	ND
Manganese (Mn)	15000	2	ND	ND	ND	ND	ND	ND
Nickel (Ni)	930	2	ND	ND	ND	ND	ND	ND
Lead (Pb)	23	2	ND	ND	ND	ND	ND	ND
Antimony (Sb)	560	2	ND	ND	ND	ND	ND	ND
Selenium (Se)	460	2	ND	ND	ND	ND	ND	ND
Tin (Sn)	180000	2	ND	ND	ND	ND	ND	ND
Organic tin	12	-	ND	ND	ND	ND	ND	ND
Strontium (Sr)	56000	2	2	ND	ND	ND	ND	ND
Zinc (Zn)	46000	2	21	12	9	22	32	147
Mass of trace amount (gram)	-	-	-	-	-	-	-	-
<b>Conclusion</b>	-	-	PASS	PASS	PASS	PASS	PASS	PASS

mg/kg = milligrams per kilogram (ppm=parts per million)

ND= Not detected

\* = Average of duplicate analysis

MDL=Method detected limit

Organic tin = migration of total organic tin is expressed as tributyl tin cation content in mg/kg

# = Verified results (see note)

Remark: Results of Cr III and Cr VI were reported as sum of soluble Chromium content unless specified.

Note: Result(s) of organic tin was (were) calculated while assuming the tin content wholly contributed from tributyltin cation unless specified.

If soluble chromium content or soluble tin content exceeded the screening limits of soluble chromium (VI) or organic tin content, the results were verified by below method

Chromium VI: In-house method were used and Analysis is based on other detection techniques.

Organic tin: EN71-3:2019+A1:2021, Annex G by Gas Chromatography – Mass Spectroscopy analysis.

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## SAMPLE PHOTO:



A



B



C



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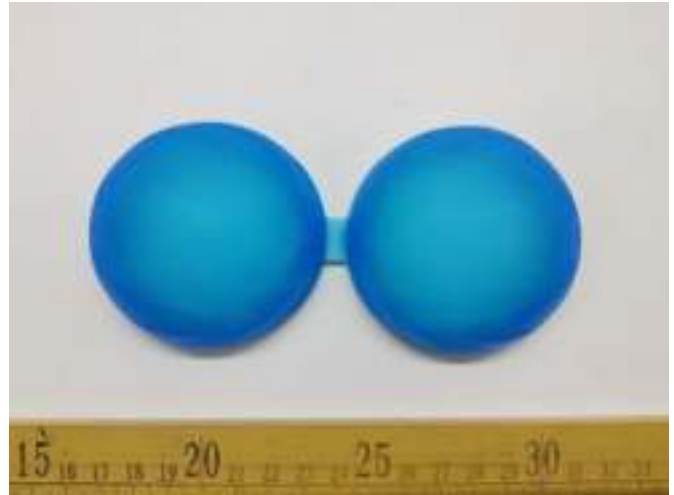
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**ADDITIONAL PHOTO:**



B- Bubble Fidget with suction



C1



C2



C3

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

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