



TEST REPORT

OVERALL RATING	
×	PASS
	FAIL

Test information

Applicant	: Yiwu Yuefa Crafts Co., Ltd.
Address	: Dongyuan Industrial Zone, Jiangdong Street, Yiwu City, Zhejiang Province, China.
Sample Description	: Fidget toy.
Style #	: Not provided.
Labeled Age Grade	: --
Client Request Age Grade	: 3 years+.
Age grade for testing	: 3 years+.
Country of origin	: China.
Export to	: Not provided.
Buyer	: Not provided.
Receiving Date	: July 13, 2021.
Test period	: July 13, 2021.~July 15, 2021.
Test Requested	: Tests requested in accordance to client requirement.

TEST ITEMS	CONCLUSIONS
EN71-1:2014+A1:2018 - Mechanical and Physical Properties(Excepted clause 7 Warnings, markings and instructions for use as per client's request)	PASS
EN71-2:2011+A1:2014 - Flammability	PASS
EN71-3:2019+A1:2021 - Migration of Certain Elements	PASS

Signed for and on behalf of
RTS TEST CO., LTD. (Zhejiang)




CHANGBIAO YU

Approved signatory



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Sample image:



Test Number	Item/ component description(s)
A	Fidget toy overall (butterfly style)
A1	Colorful silicone

Finished product image:



**Test result:****A. European Standard-Safety of Toys: EN71-1:2014+A1:2018 Mechanical and Physical Properties:**

Section(s)	Test	Test Results A
4	General Requirements	
4.1	Material cleanliness	PASS
4.2	Assembly	N/A
4.3	Flexible plastic sheeting	N/A
4.4	Toy bags	N/A
4.5	Glass	N/A
4.6	Expanding materials	N/A
4.7	Edges	PASS
4.8	Points and metallic wires	PASS
4.9	Protruding parts	N/A
4.10	Parts moving against each other	N/A
4.10.1	Folding & sliding mechanisms	N/A
4.10.2	Driving mechanisms	N/A
4.10.3	Hinges	N/A
4.10.4	Springs	N/A
4.11	Mouth-actuated toys and other toys intended to be put in the mouth	N/A
4.12	Balloons	N/A
4.13	Cords of toy kites and other flying toys	N/A
4.14	Enclosures	N/A
4.14.1	Toys which a child can enter	N/A
4.14.2	Masks & Helmets	N/A
4.15	Toys intended to bear the mass of a child	N/A
4.15.1	Toys propelled by a child or other means	N/A
4.15.2	Toy bicycles	N/A
4.15.3	Rocking horses & similar toys	N/A
4.15.4	Toys not propelled by a child	N/A
4.15.5	Toy scooters	N/A
4.16	Heavy immobile toys	N/A
4.17	Projectile toys	N/A
4.17.1	General	N/A
4.17.2	All projectiles	N/A
4.17.3	Projectiles toys with stored energy	N/A
4.17.4	Certain projectile toys without stored energy	N/A
4.18	Aquatic toys and inflatable toys	N/A

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Section(s)	Test	Test Results A
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	N/A
4.20	Acoustics	N/A
4.21	Toys containing a non-electrical heat source	N/A
4.22	Small balls	N/A
4.23	Magnets	N/A
4.24	Yo-Yo balls	N/A
4.25	Toys attached to food	N/A
4.26	Toy disguise costumes	N/A
4.27	Flying toys	N/A
5	Toys intended for children under 36 months	
5.1	General requirements	N/A
5.2	Soft-filled toys and soft-filled parts of a toy	N/A
5.3	Plastic sheeting	N/A
5.4	Cords, chains and electrical cables in toys	N/A
5.5	Liquid-filled toys	N/A
5.6	Speed limitation of electrically driven toys	N/A
5.7	Glass and porcelain	N/A
5.8	Shape and size of certain toys	N/A
5.9	Toys comprising monofilament fibres	N/A
5.10	Small balls	N/A
5.11	Play figures	N/A
5.12	Hemispheric-shaped toys	N/A
5.13	Suction cups	N/A
5.14	Straps intended to be worn fully or partially around the neck	N/A
6	Packaging	N/A
7	Warnings, markings and instructions for use	N/C

Remark: N/A= Not Applicable, N/C= Not Conducted as per client's request.

**B. European Standard-Safety of Toys: EN71-2:2011+A1:2014 Flammability of Toys:**

Test Item(s)	Observation	Test Results A
4.1 General	No visual signs of Cellulose Nitrate.	PASS
4.2 Toys to be worn on the head	/	N/A
4.3 Toy disguise costumes and toys intended to be worn by a child in play	/	N/A
4.4 Toys intended to be entered by a child	/	N/A
4.5 Soft-filled toys	/	N/A

Remark: N/A= Not Applicable

**C. European Standard-Safety of Toys: EN71-3:2019+A1:2021 Migration of Certain Elements: (Unit: mg/kg)**

Elements	MDL	Test Results		Limit Value Category III
		A1		
Soluble Aluminum(Al)	50	N.D.		28130
Soluble Antimony (Sb)	10	N.D.		560
Soluble Arsenic(As)	10	N.D.		47
Soluble Barium (Ba)	50	N.D.		18750
Soluble Boron (B)	50	N.D.		15000
Soluble Cadmium(Cd)	5	N.D.		17
Soluble trivalent chromium(Cr+3)	5	N.D.		460
Soluble Chromium VI (Cr+6)*	0.01	N.D.		0.053
Soluble Cobalt(Co)	10	N.D.		130
Soluble Copper(Cu)	50	N.D.		7700
Soluble Lead(Pb)	5	N.D.		23
Soluble Manganese(Mn)	50	N.D.		15000
Soluble Mercury(Hg)	10	N.D.		94
Soluble Nickel(Ni)	10	N.D.		930
Soluble Selenium(Se)	10	N.D.		460
Soluble Strontium(Sr)	50	N.D.		56000
Soluble Tin(Sn)	4.9	N.D.		180000
Soluble Organic tin**	4.9	N.D.		12
Soluble Zinc(Zn)	50	N.D.		46000

Explain:

1)"--"= Not clearly defined

2)N.D. = not detected, less than MDL (Method Detection Limit) .

3)▲ = sample was tested in mixture.

4) If the chromium content of the tested sample does not exceed the limits of chromium III and/or chromium VI, it is deemed to comply on the respective migration requirements of chromium III and/or chromium VI under 2009/48/EC. Otherwise, the compliance on the migration requirements of the individual chromium III and/or chromium VI are confirmed by ion speciation techniques

*: The chromium VI content is determined by LC-ICP-MS or High resolution UV-VIS spectroscopy. (If confirmation is done only)

5) If the Organic Tin content of the tested sample projected by the tin content does not exceed the limit of Organotin, it is deemed to comply on the respective migration requirement of Organic Tin under 2009/48/EC and marked with "--". Otherwise, the compliance on the migration requirement of Organic Tin is confirmed by GCMS analysis.

** : The Organic Tin content is determined by GC-MS. (If confirmation is done only).

Test Method: In accordance with EN71-3:2019+A1:2021:

1. To determine the soluble heavy metals content, Analysis was preformed by LC-ICP-MS.
2. To determine the Chromium VI (Cr+6) content, Analysis was preformed by LC-ICP-MS.
3. To determine the organic tin content, Analysis was preformed by GC-MS.

----- End of Report -----

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