



Report No.: RTS220505L0009TY

Date : 2022-05-07

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TEST REPORT

OVERALL RATING

× PASS

FAIL

Test information

Applicant	:	ONE FOR FUN.
Address	:	3-5 Cambuslang Way, Gateway Office Park, Cambuslang, Glasgow, G32 8ND.
Sample Description	:	Magic Fidget Star.
Style #	:	SV21410.
Labeled Age Grade	:	--.
Client Request Age Grade	:	3 years+.
Age grade for testing	:	3 years+.
Country of origin	:	China.
Export to	:	Not provided.
Receiving Date	:	May 05, 2022.
Test period	:	May 05, 2022.~May 07, 2022.
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
EN71-2:2020 - Flammability	PASS
EN71-3:2019+A1:2021 - Migration of Certain Elements	PASS
Entry 23 of Commission Regulation (EU) No 835/2012 Amending Annex XVII of REACH Regulation (EC) No 1907/2006 - Total Cadmium(Cd) Content	PASS
Phthalates test - European Union Regulation (EU) 2018/2005 and Entry 51/52 of regulation (EC)No 552/2009 and (EU) No 326/2015 amending Annex XVII of REACH regulation(EC)No 1907/2006	PASS

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


CHANGBIAO YU

Approved signatory



Scan to follow us



Scan for authenticity

Zhejiang RTS Test Co., LTD.

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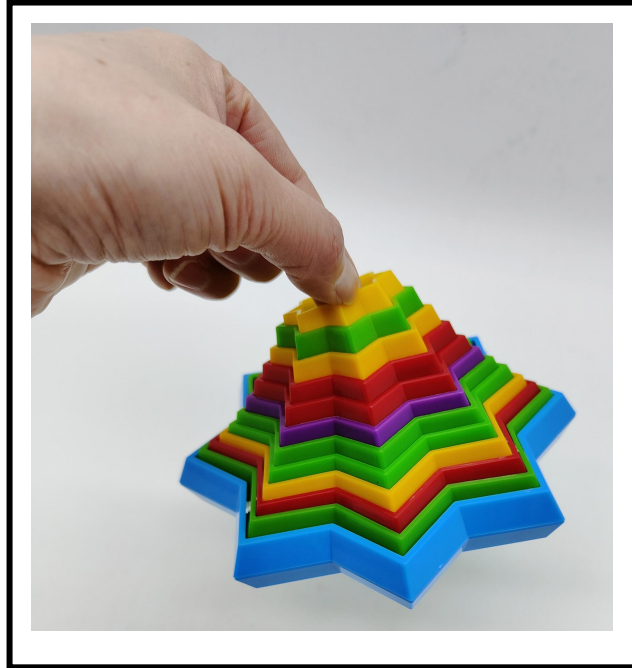
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Sample image:



Test Number	Item/ component description(s)
A	Magic Fidget Star overall (yellow style)
A1	Yellow plastic
A2	Blue plastic
A3	Purple plastic
A4	Red plastic
A5	Green plastic

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.

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B. European Standard-Safety of Toys: EN71-2:2020 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.

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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	A2	A3	A4	A5	
Soluble Aluminum(Al)	50	N.D.	N.D.	N.D.	N.D.	N.D.	28130
Soluble Antimony (Sb)	10	N.D.	N.D.	N.D.	N.D.	N.D.	560
Soluble Arsenic(As)	10	N.D.	N.D.	N.D.	N.D.	N.D.	47
Soluble Barium (Ba)	50	N.D.	N.D.	N.D.	N.D.	N.D.	18750
Soluble Boron (B)	50	N.D.	N.D.	N.D.	N.D.	N.D.	15000
Soluble Cadmium(Cd)	5	N.D.	N.D.	N.D.	N.D.	N.D.	17
Soluble trivalent chromium(Cr+3)	5	N.D.	N.D.	N.D.	N.D.	N.D.	460
Soluble Chromium VI (Cr+6)*	0.01	N.D.	N.D.	N.D.	N.D.	N.D.	0.053
Soluble Cobalt(Co)	10	N.D.	N.D.	N.D.	N.D.	N.D.	130
Soluble Copper(Cu)	50	N.D.	N.D.	N.D.	N.D.	N.D.	7700
Soluble Lead(Pb)	5	N.D.	N.D.	N.D.	N.D.	N.D.	23
Soluble Manganese(Mn)	50	N.D.	N.D.	N.D.	N.D.	N.D.	15000
Soluble Mercury(Hg)	10	N.D.	N.D.	N.D.	N.D.	N.D.	94
Soluble Nickel(Ni)	10	N.D.	N.D.	N.D.	N.D.	N.D.	930
Soluble Selenium(Se)	10	N.D.	N.D.	N.D.	N.D.	N.D.	460
Soluble Strontium(Sr)	50	N.D.	N.D.	N.D.	N.D.	N.D.	56000
Soluble Tin(Sn)	4.9	N.D.	N.D.	N.D.	N.D.	N.D.	180000
Soluble Organic tin**	4.9	N.D.	N.D.	N.D.	N.D.	N.D.	12
Soluble Zinc(Zn)	50	N.D.	N.D.	N.D.	N.D.	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.

**D. Phthalates Content:** (Unit: mg/kg)

Entry 51&52 of Commission Regulation (EU) 2018/2005 Amending Annex XVII of REACH Regulation (EC) No 1907/2006.

Test method: With reference to EN 14372:2004-6.3.2, was analyzed by Gas Chromatograph-Mass Spectrometer (GC-MS).

Test Number	Item/ component description(S)
A1&A2&A3	Yellow plastic & Blue plastic & Purple plastic
A4&A5	Red plastic & Green plastic

Test Item(s)	CAS No.	Results		MDL	Limit value
		A1&A2&A3▲	A4&A5▲		
Dibutyl Phthalate(DBP)	84-74-2	N.D.	N.D.	50	-
Benzylbutyl Phthalate(BBP)	85-68-7	N.D.	N.D.	50	-
Bis-(2-ethylhexyl)Phthalate(DEHP)	117-81-7	N.D.	N.D.	50	-
Diisobutyl phthalate (DIBP)	84-69-5	N.D.	N.D.	50	-
Total(DBP+BBP+DEHP+DIBP)		N.D.	N.D.	-	1000
Di-n-octyl Phthalate(DNOP)	117-84-0	N.D.	N.D.	50	-
Diisodecyl Phthalate(DIDP)	26761-40-0 & 68515-49-1	N.D.	N.D.	50	-
Di-iso-nonyl Phthalate(DINP)	28553-12-0 & 68515-48-0	N.D.	N.D.	50	-
Total(DNOP+DIDP+DINP)		N.D.	N.D.	-	1000
Conclusion:		PASS	PASS	-	-

Note:

1) N.D. = not detected, less than MDL.

2) MDL = Method Detection Limit.

3) "▲" = This data is obtained from composite testing on more than one materials or shapes, it is possible that result obtained from individual testing on any one of the materials or shapes is substantially higher. Please be cautious when using this data for compliance evaluation.

**E. Total Cadmium(Cd) content:** (Unit: mg/kg)

Entry 23 of Commission Regulation (EU) No 835/2012 Amending Annex XVII of REACH Regulation (EC)No 1907/2006 .

Test method: RTS-ZY-008 As per Metal- CPSC-CH-E1001-08.3; Nonmetal- CPSC-CH-E1002-08.3 or Surface coating- CPSC-CH-E1003-09.1, Was analyzed by flame atomic absorption spectrometry(AAS) or Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Test Number	Item/ component description(s)
A1&A2&A3	Yellow plastic & Blue plastic & Purple plastic
A4&A5	Red plastic & Green plastic

Test item	Test Number	MDL	Test Result	Maximum permissible limit	Conclusion
Cadmium (Cd)	A1&A2&A3 ▲	5	N.D.	100	PASS
	A4&A5 ▲	5	N.D.	100	PASS

Note:

- 1) MDL=Method Detection Limit.
- 2) N.D. = not detected, less than MDL.
- 3)“▲” = This data is obtained from composite testing on more than one materials or shapes, it is possible that result obtained from individual testing on any one of the materials or shapes is substantially higher. Please be cautious when using this data for compliance evaluation.

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