

TEST REPORT

APPLICANT :
ADDRESS :
SAMPLE DESCRIPTION : FIDGET CUBE
STYLE / ITEM NO. :
MANUFACTURER : O'SMILE INDUSTRIAL COMPANY
COUNTRY OF ORIGIN : CHINA
COUNTRY TO IMPORT : UK
AGE REQUESTED ON APPLICATION FORM : 3+
LABELED AGE GRADE : NOT PRESENT
AGE GRADE APPLIED IN TESTING : OVER 3 YEARS
SAMPLE RECEIVED DATE : FEB. 24, 2017; MAR. 10, 2017
TEST PERIOD : FEB. 25, 2017 TO MAR. 13, 2017
RESULT SUMMARY : PLEASE REFER TO NEXT PAGE(S).

*****FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S)*****

SIGNED FOR AND ON BEHALF OF
EUROFINS TESTING TECHNOLOGY (SHENZHEN) CO. LTD.



Jamie Zhang
Toy Testing Supervisor



Harry Chen
Lab & Technical Support
Manager



Coco Luo
Lab & Reporting Manager



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This test report does not entitle to carry any safety mark on this or similar products.

RESULT SUMMARY

:

TEST REQUESTED	RESULT
- EN 71 – 1: 2014 Mechanical and physical properties(except clause 7)	PASS
- EN 71 – 2: 2011 + A1: 2014 Flammability	PASS
- EN 71 – 3: 2013 + A1: 2014 Migration of Certain Elements	PASS
- Total Cadmium Content according to Entry 23 of Annex XVII to Regulation (EC) No 1907/2006 and its amendments Regulation (EC) No 552/2009, (EU) No 494/2011, (EU) No 835/2012 and (EU) No 2016/217.	PASS

TO BE CONTINUED

EN 71 – 1: 2014 Safety of Toys - Mechanical and physical properties

Clause	Requirement	Result
4	General requirements	
4.1	Material cleanliness	P
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	P
4.8	Points and metallic wires	P
4.9	Protruding parts	N/A
4.10.1	Folding and 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
4.14.1	Toys which a child can enter	N/A
4.14.2	Masks and helmets	N/A
4.15.1	Toys propelled by a child or by other means	N/A
4.15.2	Toy bicycles	N/A
4.15.3	Rocking horses and similar toys	N/A
4.15.4	Toys not propelled by a child	N/A
4.15.5	Toy scooters	N/A

TO BE CONTINUED

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Clause	Requirement	Result
4.16	Heavy immobile toys	N/A
4.17.1	Projectiles general	N/A
4.17.2	Projectile toys without stored energy	N/A
4.17.3	Projectile toys with stored energy	N/A
4.17.4	Bows and arrows	N/A
4.18	Aquatic toys and inflatable toys	N/A
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	N/A
4.20	Acoustics	P
4.21	Toys containing a non-electrical heat source	N/A
4.22	Small balls	N/A
4.23.1	Magnets general	N/A
4.23.2	Toys other than magnetic/electrical experimental sets intended for children over 8 years	N/A
4.23.3	Magnetic/electrical experimental sets intended for children over 8 years	N/A
4.24	Yo-yo balls	N/A
4.25	Toys attached to food	N/A
5	Toy 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 ride-on toys	N/A
5.7	Glass and porcelain	N/A
5.8	Shape and size of certain toys	N/A

TO BE CONTINUED

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Clause	Requirement	Result
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

Note: P = Pass N/A = Not Applicable

EN 71 - 2: 2011 + A1: 2014 Safety of Toys – Flammability

Clause	Requirement	Result
4	Requirements	
4.1	General requirements	P
4.2	Toys to be worn on the head	
4.2.2	Beards, moustaches, wigs etc., made from hair, pile or material with similar features(e.g. free hanging ribbons, paper, cloth strands or other flowing elements), which protrude 50 mm or more from the surface of the toy	N/A
4.2.3	Beards, moustaches, wigs etc., made from hair, pile or material with similar features(e.g. free hanging ribbons, paper, cloth strands or other flowing elements), which protrude less than 50 mm from the surface of the toy	N/A
4.2.4	Full or partial moulded head masks	N/A
4.2.5	Flowing elements of toys to be worn on the head(except those covered by 4.2.2 and 4.2.3), hoods, head-dresses etc. and masks not covered by 4.2.4 which partially or fully cover the head(e.g. fabric and cardboard masks, eye masks, face masks), but excluding those items covered by 4.3	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

Note: P = Pass N/A = Not Applicable

TO BE CONTINUED

Material list

Testing material No.	Component	Material	Colour
1a	Hull of cube	Plastic	Black
1b	Coating on cube	Coating	Transparent
2	Button, scroll,remote pole,switch and rotary of cube	Plastic	Red
3	Remote pole	Plastic	Red
4	Plastic at reverse side of remote pole	Plastic	Dark pink
5	Block inside of cube	Plastic	Dark grey
6	Round stick of button	Plastic	Black
7	Base of button	Plastic	Black
8	Button inside of cube	Plastic	Transparent and black

TO BE CONTINUED

EN 71-3:2013 + A1: 2014 - Migration of Certain Elements

Test method : With reference to EN 71-3:2013 + A1: 2014: Migration of certain elements.
 General Elements analysis was performed by ICP-MS.
 Soluble Chromium(VI) analysis was performed by IC-UV-Vis.
 Soluble Organic Tin analysis was performed by GC-MS.

Element	Limit(mg/kg) Category III	MDL (mg/kg)	Material Test Result (mg/kg)		
			1b(*) (52.0mg)	2	3
Soluble Aluminium (Al)	70000	10	N.D.	N.D.	N.D.
Soluble Antimony (Sb)	560	10	N.D.	N.D.	N.D.
Soluble Arsenic (As)	47	10	N.D.	N.D.	N.D.
Soluble Barium (Ba)	18750	10	N.D.	N.D.	N.D.
Soluble Boron (B)	15000	10	N.D.	N.D.	N.D.
Soluble Cadmium (Cd)	17	10	N.D.	N.D.	N.D.
Soluble Chromium III (Cr III)	460	5	N.D.	N.D. ^Δ	N.D. ^Δ
Soluble Chromium VI (Cr VI)	0.2	0.2	N.D.	N.D. ^Δ	N.D. ^Δ
Soluble Cobalt (Co)	130	10	N.D.	N.D.	N.D.
Soluble Copper(Cu)	7700	10	N.D.	N.D.	N.D.
Soluble Lead (Pb)	160	10	N.D.	N.D.	N.D.
Soluble Manganese (Mn)	15000	10	N.D.	N.D.	N.D.
Soluble Mercury (Hg)	94	10	N.D.	N.D.	N.D.
Soluble Nickel (Ni)	930	10	N.D.	N.D.	N.D.
Soluble Selenium (Se)	460	10	N.D.	N.D.	N.D.
Soluble Strontium (Sr)	56000	10	N.D.	N.D.	N.D.
Soluble Tin (Sn)	180000	4.9	N.D.	16.9	N.D.
Soluble Organic Tin	12	0.1	--	N.D.	--
Soluble Zinc (Zn)	46000	10	N.D.	N.D.	N.D.

Note: - 1 mg/kg = 1 ppm = 0.0001%

- N.D. = Not Detected

- MDL = Method Detection Limit

- Unless specified, determination of Chromium (III) and Chromium (VI) was based on elemental analysis.

- The reported soluble organic tin value was calculated by summation of the migration values of Methyl tin, Butyl tin, Dibutyl tin, Tributyl tin, Tetra-butyl tin, Mono-octyl tin, Dioctyl tin, Dipropyl tin, Diphenyl tin and Triphenyl tin.

-^ΔChromium (III) and Chromium (VI) confirmation test were performed on the tested component.

-^Δ Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in EN71-3: 2013 + A1: 2014.

Remark:

. The weight of sample marked () available was less than 100mg, but greater than 10mg, so result was calculated as if 100mg of the sample was available.

TO BE CONTINUED

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Total Cadmium Content

Test method : EPA 3052: 1996, EPA 6010D: 2014.
 Detection limit : 10 mg/kg
 Limit : See below - according to Entry 23 of Annex XVII to Regulation (EC) No 1907/2006 and its amendments Regulation (EC) No 552/2009, (EU) No 494/2011, (EU) No 835/2012 and (EU) No 2016/217.

Material(s)	Limit (mg/kg)
- Paints (wet state); - Plastics; - Brazing fillers; - Metal parts in jewelry;	100
- Paints on a painted article; - Paints with zinc content exceeding 10% by weight of the paint; - Recovered PVC used in article marked with "Contains recovered PVC" or with the designated pictogram.	1000

Test No.	Material No.	Test result (mg/kg)
Cd-1	1(a+b)+2+3	N.D.
Cd-2	4+5	N.D.
Cd-3	6+7+8	N.D.

Note: - 1 mg/kg = 1 ppm = 0.0001%
 - N.D. = Not Detected

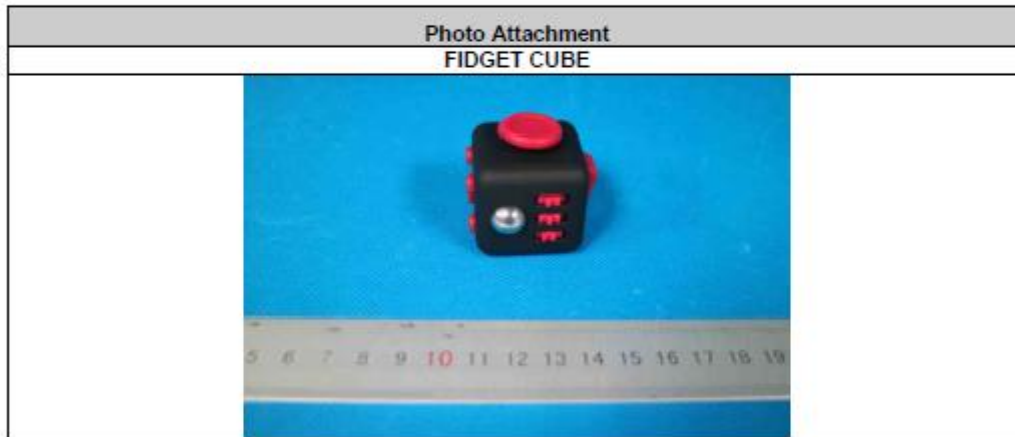
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Other Information / Remark:

N/A



END OF THE REPORT