

Test Report

Report No.: AGC08120190501-005

Date: Jun.21, 2019

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Applicant: DAGAO TOYS FACTORY
Address: Pumei Industrial Area, Chenghai Shantou, Guangdong, China
Test site: 1,6/F.,Building 2,No. 1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan District, Shenzhen, Guangdong, China

Report on the submitted samples said to be:

Sample Name : Building blocks table
1080,1081,1082,7001, 7002, 7003, 7004, 7005, 7006, 7007, 7008, 7009, 7010, 7011, 7012, 7013,7014, 7015, 7016, 7017, 7018, 7019, 7020, 7021, 7022, 7023, 7024, 7025, 7026, 7027, 7028,7029, 7030, 7031, 7032, 7033, 7034, 7035, 7036, 7037, 7038, 7039, 7040, 7041, 7042, 7043,7044, 7045, 7046, 7047, 7048, 7049, 7050, 7051, 7052, 7053, 7054, 7055, 7056, 7057, 7058,7059, 7060, 7061, 7062, 7063, 7064, 7065, 7066, 7067, 7068, 7069, 7070, 7071, 7072, 7073,7074, 7075, 7076, 7077, 7078, 7079, 7080,7081, 7082, 7083, 7084, 7085, 7086, 7087, 7088, 7089, 7090, 7091, 7092, 7093, 7094, 7095, 7096, 7097

Item No. :

Labeled Age Grading : Not stated
Requested Age Grading : 3+
Age Group Applied in Testing : 3+
Sample Receiving Date : May 15, 2019
Testing Period : May 15, 2019 to May 22, 2019
Sample receiving state : Normal

Test Requested : Please refer to next pages.
Test Method : Please refer to next pages.
Test Result : Please refer to next pages.

Approved by:


Liujinliang, Jay.Liu / Liulinwen, Lewis

Laboratory Supervisor / Technical Director



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Test Requested:

(1) For compliance with the European Standard on Safety of Toys:

EN71-1: 2014+A1:2018 – Mechanical and Physical Properties

EN71-2:2011+A1:2014 – Flammability of Toys

EN71-3:2013+A3:2018 – Migration of Certain Elements

(2) Labeling requirement (Washing/Cleaning Label, CE mark, importer / manufacturer mark (name, address), product identification) according to the Directive 2009/48/EC-Safety of toys

Conclusion

Pass

Pass

Pass

See the result pages

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Test Result(s):

(1)-1:EN71 Part 1: 2014+A1:2018 - Mechanical and Physical Properties

Clause	Description	Result
4	GENERAL REQUIREMENTS	
4.1	Material cleanliness	Pass
4.2	Assembly	N/A
4.3	Flexible plastics 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	Pass
4.10	Parts moving against each other	
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	Enclosures	N/A
4.15	Toys intended to bear the mass of a child	Pass
4.16	Heavy immobile toys	N/A
4.17	Projectiles	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	N/A
4.21	Toys containing a non-electrical heat source	N/A

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Clause	Description	Result
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	Filling materials	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
5.15	Sledges with cords for pulling	N/A
6	PACKAGING	N/A
7	Warnings, markings and instructions for use	Pass

Note:

As per client's requirement, the sample(s) was evaluated for use by children 3+
N/A=Not Application

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(1)-2:EN71 Part 2:2011+A1:2014 - Flammability of Toys

Clause	Description	Result
4	Requirements	
4.1	General	Pass
4.2	Toys to be worn on the head	
4.2.1	General	N/A
4.2.2	Beards, moustaches, wigs, etc, made from hair, pile or material with similar features (e.g. freehanging ribbons, paper or cloth strands), which protrude more than or equal to 50 mm 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. freehanging ribbons, paper or cloth strands etc.), 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 fabric masks which partially or fully cover the head, but excluding those items covered by 4.3	N/A
4.3	Toys disguise costumes and other 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 (animals and dolls, etc) with a piled or textile surface	N/A

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(1)-3 EN 71-3:2013+A3:2018 - Migration of Certain Elements.

Category III: Scrapped - off toy material

Test method: EN 71-3:2013+A3:2018, Analysis was performed by ICP-OES, GC-MS, LC-ICP-MS.

Unit: mg/kg

Tested Item(s)	Result(s)					MDL	Limit
	1	2	3	4	5		
Aluminium (Al) (M)	N.D.	292	N.D.	N.D.	N.D.	50	See Remark
Antimony (Sb) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	2.0	
Arsenic (As) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	0.5	
Barium (Ba) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	50	
Boron (B) (M)	N.D.	103	N.D.	N.D.	N.D.	50	
Cadmium (Cd) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	0.3	
Chromium III (Cr(III)) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	
Chromium VI (Cr(VI)) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	0.005	
Cobalt (Co) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	2.5	
Copper (Cu) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	50	
Lead (Pb) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	0.25	
Manganese (Mn) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	50	
Mercury (Hg) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	1.0	
Nickel (Ni) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	10	
Selenium (Se) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	5	
Strontium (Sr) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	50	
Tin (Sn) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	50	
Organic Tin* (M)	N.D.	N.D.	N.D.	N.D.	N.D.	0.15	
Zinc (Zn) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	50	
Conclusion	Pass	Pass	Pass	Pass	Pass	/	

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Unit: mg/kg

Tested Item(s)	Result(s)					MDL	Limit
	6	7	8	9	10		
Aluminium (Al) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	50	See Remark
Antimony (Sb) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	2.0	
Arsenic (As) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	0.5	
Barium (Ba) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	50	
Boron (B) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	50	
Cadmium (Cd) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	0.3	
Chromium III (Cr(III)) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	
Chromium VI (Cr(VI)) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	0.005	
Cobalt (Co) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	2.5	
Copper (Cu) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	50	
Lead (Pb) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	0.25	
Manganese (Mn) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	50	
Mercury (Hg) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	1.0	
Nickel (Ni) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	10	
Selenium (Se) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	5	
Strontium (Sr) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	50	
Tin (Sn) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	50	
Organic Tin* (M)	N.D.	N.D.	N.D.	N.D.	N.D.	0.15	
Zinc (Zn) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	50	
Conclusion	Pass	Pass	Pass	Pass	Pass	/	

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Unit: mg/kg

Tested Item(s)	Result(s)						MDL	Limit
	11	12	13	14	15	16		
Aluminium (Al) (M)	N.D.	N.D.	N.D.	N.D.	275	N.D.	50	See Remark
Antimony (Sb) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	2.0	
Arsenic (As) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.5	
Barium (Ba) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	50	
Boron (B) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	50	
Cadmium (Cd) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.3	
Chromium III (Cr(III)) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	
Chromium VI (Cr(VI)) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.005	
Cobalt (Co) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	2.5	
Copper (Cu) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	50	
Lead (Pb) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.25	
Manganese (Mn) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	50	
Mercury (Hg) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1.0	
Nickel (Ni) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	10	
Selenium (Se) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	5	
Strontium (Sr) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	50	
Tin (Sn) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	50	
Organic Tin* (M)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	0.15	
Zinc (Zn) (M)	N.D.	N.D.	N.D.	N.D.	N.D.	133	50	
Conclusion	Pass	Pass	Pass	Pass	Pass	Pass	/	

- Note:**
1. N.D.= Not Detected (lower than method detection limit)
 - 2.MDL = Method detection limit
 - 3.mg/kg = milligram per kilogram
 - 4.M = Migration
 - 5.* = Migration of organic tin is expressed as tributyl tin cation content in mg/kg.

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Permissible Limit for Different Materials

Item	Category III In scraped-off toy material	Category II In liquid or sticky toy material	Category I In dry, brittle, powder-like or pliable toy material
Aluminium (Al) (M)	70000	1406	5625
Antimony (Sb) (M)	560	11.3	45
Arsenic (As) (M)	47	0.9	3.8
Barium (Ba) (M)	18750	375	1500
Boron (B) (M)	15000	300	1200
Cadmium (Cd) (M)	17	0.3	1.3
Chromium III(Cr(III)) (M)	460	9.4	37.5
Chromium VI (Cr(VI)) (M)	0.2	0.005	0.02
Cobalt (Co) (M)	130	2.6	10.5
Copper (Cu) (M)	7700	156	622.5
Lead (Pb) (M)	23	0.5	2.0
Manganese (Mn) (M)	15000	300	1200
Mercury (Hg) (M)	94	1.9	7.5
Nickel (Ni) (M)	930	18.8	75
Selenium (Se) (M)	460	9.4	37.5
Strontium (Sr) (M)	56000	1125	4500
Tin (Sn) (M)	180000	3750	15000
Organic Tin (M)	12	0.2	0.9
Zinc (Zn) (M)	46000	938	3750

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(2) Labeling requirement (Washing/Cleaning Label, CE mark, importer / manufacturer mark (name, address), product identification) according to the Directive 2009/48/EC-Safety of toys

Summary table:

	On product	On packaging
Washing/Cleaning instruction	/	/
CE mark	Absent	Absent
Manufacturer's name	Absent	Present
Manufacturer's address	Absent	Present
Importer's name	Absent	Absent
Importer's address	Absent	Absent
Product ID	Absent	Absent

Remark:

- 1: Washing/Cleaning label According to Directive 2009/48/EC the following safety requirements apply regarding cleaning and washing: A toy intended for use by children under 36 months must be designed and manufactured in such a way that it can be cleaned. A textile toy must, to this end, be washable, except if it contains a mechanism that may be damaged if soak washed. The toy must fulfill the safety requirements also after having been cleaned in accordance with this point and the manufacturer's instructions. The manufacturer should, if applicable, provide instructions on how the toy has to be cleaned.
- 2: Toys made available on the market must bear the CE marking. The CE marking must be subject to the general principles set out in Article 30 of Regulation (EC) No 765/2008. The CE marking must be affixed visibly, legibly and indelibly to the toy, to an affixed label or to the packaging. In the case of small toys and toys consisting of small parts, the CE marking may alternatively be affixed to a label or an accompanying leaflet. Where, in the case of toys sold in counter displays, that is not technically possible, and on condition that the counter display was originally used as packaging for the toy, the CE marking may be affixed to the counter display. Where the CE marking is not visible from outside the packaging, if any, it shall as a minimum be affixed to the packaging. Where specific legislation does not impose specific dimensions, the CE marking must be at least 5 mm high.
- 3: The manufacturer's name, registered trade name or registered trade mark and the address at which the manufacturer can be contacted must be indicated on the toy or, where that is not possible, on its packaging or in a document accompanying the toy. This requirement applies also to the name and address etc. of any importer.
- 4: Manufacturers must ensure that their toys bear a type, batch, serial or model number or other element allowing their identification, or where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy

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Sample Description

Building blocks table		
1.	White plastic table	table
2.	Red coating	
3.	Blue coating	
4.	White plastic scaffolding	
5.	Red plastic sheet	
6.	Yellow plastic sheet	
7.	Blue plastic sheet	
8.	Green plastic sheet	
9.	Red ground plastic base plate	stool
10.	Blue frosted plastic base plate	
11.	Red plastic backrest	
12.	Blue plastic backrest	
13.	Red plastic scaffolding	
14.	Blue plastic scaffolding	
15.	Red sticker	Parts
16.	Black foam pad	

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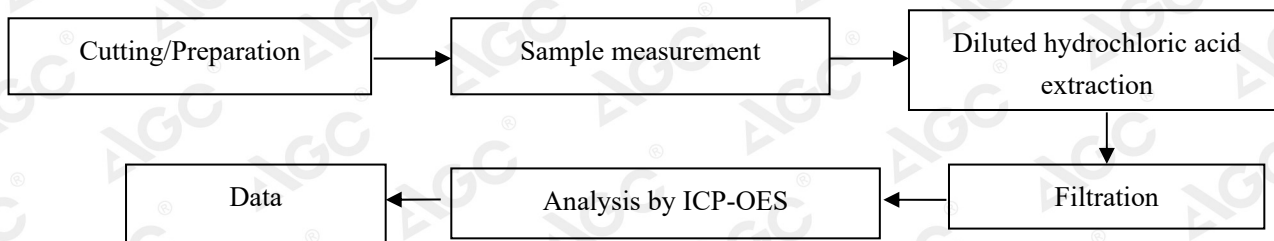
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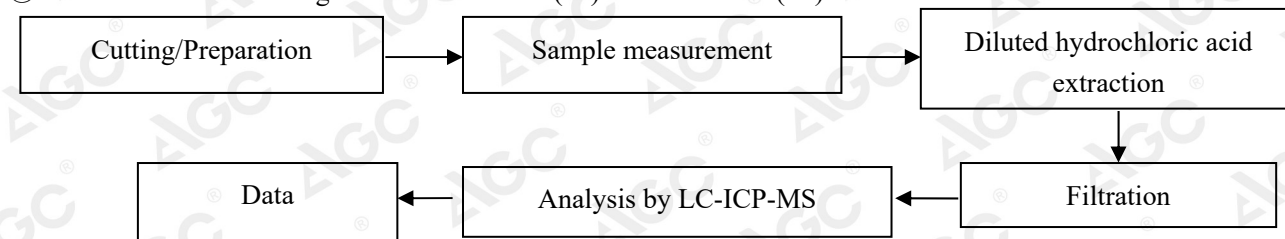
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Test Flow Chart

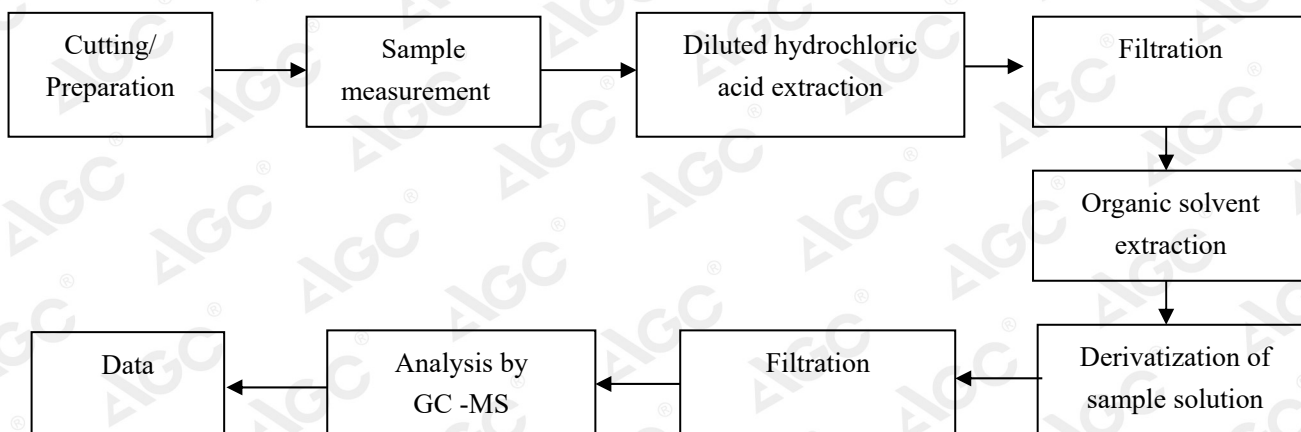
- ① Test Flow Chart for Migration of 17 Heavy Metals-Lead, Cadmium, Chromium, Mercury, Antimony, Barium, Arsenic, Selenium, Aluminum, Boron, Cobalt, Copper, Manganese, Nickel, Strontium, Zinc and Tin:



- ② Test Flow Chart for Migration of Chromium(III) and Chromium(VI):



- ③ Test Flow Chart for Migration of Organic Tin Compounds:



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-As client's request, add this report that the results are copied from report No.: AGC08120190501-001.

The photo of the sample



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AGC authenticate the photo on original report only

*** End of Report***

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