



## Test Report

**Date** : 2020-07-02  
**No.** : HP20060658

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**Applicant** : Yoshiritsu Co., Ltd.  
1563 Koshibe, Oyodo Yoshino, Nara 638-0803 Japan

Attn: Mo Ohkubo

**Description of Samples** : Seven styles submitted sample(s) each in two sets stated to be :  
Name of Parts :  
LaQ RED No.1-7  
LaQ BLUE No.1-7  
LaQ YELLOW No.1-7  
LaQ GREEN No.1-7  
LaQ PINK No.1-7  
LaQ SKY BLUE No.1-7  
LaQ ORANGE No.1-7  
LaQ LIME No.1-7  
LaQ WHITE No.1-7  
LaQ BLACK No.1-7  
LaQ BROWN No.1-7  
LaQ GRAY No.1-7  
LaQ LAVENDER No.1-7  
LaQ CLEAR No.1-7  
LaQ CLEAR RED No.1-7  
LaQ CLEAR BLUE No.1-7  
LaQ CLEAR YELLOW No.1-7  
LaQ HAMACRON CONSTRUCTOR WHEEL  
LaQ HAMACRON CONSTRUCTOR SHAFT  
LaQ HAMACRON CONTRSUCTOR MIDDLE SIZE WHEEL  
LaQ HAMACRON CONSTRUCTOR LONG SHAFT  
LaQ HAMACRON CONSTRUCTOR MINI WHEEL  
LaQ HAMACRON CONSTRUCTOR MINI SHAFT  
LaQ SWEET COLLECTION HEADBAND  
Blister Case ORANGE  
Blister Case RED  
Blister Case BLUE  
Blister Case PINK  
Blister Case LIME  
Plastic Container (Small)  
Plastic Container (Large)

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WONG Wing-cheung, Benny  
Authorized Signatory

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**Description of Samples** : Item Name  
①LaQ ANIMAL WORLD MAMMOTH  
②LaQ ANIMAL WORLD SHOEBILL  
③LaQ ANIMAL WORLD WHITE TIGER & POLAR BEAR  
④LaQ JAPANESE COLLECTION OSHIRO-JAPANESE CASTLE  
⑤LaQ MARINE WORLD DEEP SEA CREATURE  
⑥LaQ MYSTICAL BEAST GRIFFIN  
⑦LaQ SWEET COLLECTION ICE CREAM WAGON  
Labelled Age Grading : ①-⑤, ⑦ Age 5 years and up  
⑥ Age 7 years and up  
Appropriate Age Grade : Age 5 years and up  
Client's Requested Age Grading : Age 5 years and up  
Tested Age Grade : Age 5 years and up  
Country of Origin : Japan

**Date Samples Received** : 2020-06-23

**Date Tested** : 2020-06-23 to 2020-06-30

	<u>Test Item</u>	<u>Result</u>
<b>Test Requested</b>	I. EN71 : Part 1 : 2014 + A1 : 2018 - Physical and Mechanical Properties	Passed
	II. EN71 : Part 2 : 2011 + A1 : 2014 - Flammability test	Passed
	III. EN71 : Part 3 : 2019 - Migration of certain elements (Aluminium, Antimony, Arsenic, Barium, Boron, Cadmium, Chromium (III), Chromium (VI), Cobalt, Copper, Lead, Manganese, Mercury, Nickel, Selenium, Strontium, Tin, Organic Tin and Zinc).	Passed
	IV. Regulation (EC) No. 1907/2006 of the European Parliament and of the Council, Annex XVII, Entry 23 and its amendment Regulation (EU) No. 494/2011 and No. 835/2012 - Cadmium content (formerly Directive 91/338/EEC)	Passed

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	<u>Test Item</u>	<u>Result</u>
V.	European Regulation (EU) No. 1907/2006(REACH) Annex XVII Entry 51 & 52 and its amendment Commission Regulation (EU) 2018/2005 — Phthalate content.	Passed
VI.	ASTM F963-17	
	- Physical and Mechanical Tests	Passed
	- Flammability Test	Passed
	- Heavy Elements Test (Clause 4.3.5)	Passed
VII.	Lead content in accordance with U.S. Consumer Product Safety Improvement Act of 2008 - Sec. 101 : Children's Products Containing Lead; Lead Paint Rule	Passed
VIII.	Phthalates content as required by section 108, USA Consumer Product Safety Improvement Act and 16 CFR 1307 and 15 U.S. Code § 2057c.	Passed

Test Result : Refer to the result pages for details.

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### Test Results :

I. EN71 : Part 1 : 2014 + A1 : 2018 (For items ①, ②, ④, ⑤, ⑦)

<u>Applicable clause</u>	<u>Description</u>	<u>Result</u>
4	<u>General requirements</u>	
4.1	Material cleanliness	Pass
4.7	Edges	Pass
4.8	Points and metallic wires	Pass
6	Packaging	Pass
7	<u>Warnings, markings and instructions for use</u>	* <sup>1</sup>
7.1	General	Pass
7.2	Toys not intended for children under 36 months	Pass

\*<sup>1</sup> = The manufacturer or his authorized representative or the importer into the community shall in a visible, easily legible and indelible form affix his name and/or trade name and/or mark and address on the toy or on its packaging.

I. EN71 : Part 1 : 2014 + A1 : 2018 (For items ③, ⑥)

<u>Applicable clause</u>	<u>Description</u>	<u>Result</u>
4	<u>General requirements</u>	
4.1	Material cleanliness	Pass
4.7	Edges	Pass
4.8	Points and metallic wires	Pass
4.9	Protruding parts	Pass
6	Packaging	Pass
7	<u>Warnings, markings and instructions for use</u>	* <sup>1</sup>
7.1	General	Pass
7.2	Toys not intended for children under 36 months	Pass

\*<sup>1</sup> = The manufacturer or his authorized representative or the importer into the community shall in a visible, easily legible and indelible form affix his name and/or trade name and/or mark and address on the toy or on its packaging.

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**II.**     EN71 : Part 2 : 2011 + A1 : 2014

<u>Applicable</u> <u>clause</u>	<u>Title/Description</u>	<u>Result</u>
4.1	General requirements	Pass

Note : No cellulose nitrate and material with same behaviour in fire was detected.

**III.**     EN 71 : Part 3 : 2019

Test Method: Heavy element analysis was determined by Inductively Coupled Plasma Spectrometry (ICP-OES) and/or Inductively Coupled Plasma Mass Spectrometry (ICP-MS) and/or Gas Chromatography Mass Spectrometry (GCMS).

Category III – Scraped-off toy material

Element	Migration limit (mg/kg)	Result (mg/kg)					
		Sample					
		1	2	3	4	5	6
Aluminium (Al)	70,000	ND	ND	ND	ND	ND	ND
Antimony (Sb)	560	ND	ND	ND	ND	ND	ND
Arsenic (As)	47	ND	ND	ND	ND	ND	ND
Barium (Ba)	18,750	ND	ND	ND	ND	ND	ND
Boron (B)	15,000	ND	ND	ND	ND	ND	ND
Cadmium (Cd)	17	ND	ND	ND	ND	ND	ND
Chromium (III)	460	0.026	0.075	BL	BL	BL	BL
Chromium (VI)	0.053	0.025	ND	BL	BL	BL	BL
Cobalt (Co)	130	ND	ND	ND	ND	ND	ND
Copper (Cu)	7,700	ND	ND	ND	ND	ND	ND
Lead (Pb)	160	ND	ND	ND	ND	ND	ND
Manganese (Mn)	15,000	11	7	ND	ND	ND	ND
Mercury (Hg)	94	ND	ND	ND	ND	ND	ND
Nickel (Ni)	930	ND	ND	ND	ND	ND	ND
Selenium (Se)	460	ND	ND	ND	ND	ND	ND
Strontium (Sr)	56,000	41	39	ND	ND	ND	ND
Tin (Sn)	180,000	ND	ND	ND	ND	ND	ND
Organic tin <sup>#</sup>	12	ND	ND	ND	ND	ND	ND
Zinc (Zn)	46,000	ND	ND	ND	ND	ND	ND

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**III. EN 71 : Part 3 : 2019**

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Category III – Scraped-off toy material

Element	Migration limit (mg/kg)	Result (mg/kg)					
		Sample					
		7	8	9	10	11	12
Aluminium (Al)	70,000	ND	ND	ND	ND	ND	ND
Antimony (Sb)	560	ND	ND	ND	ND	ND	ND
Arsenic (As)	47	ND	ND	ND	ND	ND	ND
Barium (Ba)	18,750	ND	ND	ND	ND	ND	ND
Boron (B)	15,000	ND	ND	ND	ND	ND	ND
Cadmium (Cd)	17	ND	ND	ND	ND	ND	ND
Chromium (III)	460	BL	BL	BL	BL	BL	BL
Chromium (VI)	0.20.053	BL	BL	BL	BL	BL	BL
Cobalt (Co)	130	ND	ND	ND	ND	ND	ND
Copper (Cu)	7,700	ND	ND	ND	ND	ND	ND
Lead (Pb)	160	ND	ND	ND	ND	ND	ND
Manganese (Mn)	15,000	ND	ND	ND	ND	ND	ND
Mercury (Hg)	94	ND	ND	ND	ND	ND	ND
Nickel (Ni)	930	ND	ND	ND	ND	ND	ND
Selenium (Se)	460	ND	ND	ND	ND	ND	ND
Strontium (Sr)	56,000	ND	ND	ND	ND	ND	ND
Tin (Sn)	180,000	ND	ND	ND	ND	ND	ND
Organic tin <sup>#</sup>	12	ND	ND	ND	ND	ND	ND
Zinc (Zn)	46,000	ND	ND	ND	ND	ND	ND

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Category III – Scraped-off toy material

Element	Migration limit (mg/kg)	Result (mg/kg)					
		Sample					
		13	14	15	16	17	18
Aluminium (Al)	70,000	ND	ND	ND	ND	ND	ND
Antimony (Sb)	560	ND	ND	ND	ND	ND	ND
Arsenic (As)	47	ND	ND	ND	ND	ND	ND
Barium (Ba)	18,750	ND	ND	ND	ND	ND	ND
Boron (B)	15,000	ND	ND	ND	ND	ND	ND
Cadmium (Cd)	17	ND	ND	ND	ND	ND	ND
Chromium (III)	460	BL	BL	BL	BL	BL	BL
Chromium (VI)	0.2	BL	BL	BL	BL	BL	BL
Cobalt (Co)	130	ND	ND	ND	ND	ND	ND
Copper (Cu)	7,700	ND	ND	ND	ND	ND	ND
Lead (Pb)	160	ND	ND	ND	ND	ND	ND
Manganese (Mn)	15,000	ND	ND	ND	ND	ND	ND
Mercury (Hg)	94	ND	ND	ND	ND	ND	ND
Nickel (Ni)	930	ND	ND	ND	ND	ND	ND
Selenium (Se)	460	ND	ND	ND	ND	ND	ND
Strontium (Sr)	56,000	ND	ND	ND	ND	ND	ND
Tin (Sn)	180,000	0.2	ND	ND	ND	ND	ND
Organic tin <sup>#</sup>	12	0.5	ND	ND	ND	ND	ND
Zinc (Zn)	46,000	ND	ND	ND	ND	ND	ND

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Category III – Scraped-off toy material

Element	Migration limit (mg/kg)	Result (mg/kg)					
		Sample					
		19	20	21	22	23	24
Aluminium (Al)	70,000	ND	ND	ND	ND	ND	ND
Antimony (Sb)	560	ND	ND	ND	ND	ND	ND
Arsenic (As)	47	ND	ND	ND	ND	ND	ND
Barium (Ba)	18,750	ND	ND	ND	ND	ND	ND
Boron (B)	15,000	ND	ND	ND	ND	ND	ND
Cadmium (Cd)	17	ND	ND	ND	ND	ND	ND
Chromium (III)	460	BL	BL	BL	BL	BL	BL
Chromium (VI)	0.2	BL	BL	BL	BL	BL	BL
Cobalt (Co)	130	ND	ND	ND	ND	ND	ND
Copper (Cu)	7,700	ND	ND	ND	ND	ND	ND
Lead (Pb)	160	ND	ND	ND	ND	ND	ND
Manganese (Mn)	15,000	ND	ND	ND	ND	ND	ND
Mercury (Hg)	94	ND	ND	ND	ND	ND	ND
Nickel (Ni)	930	ND	ND	ND	ND	ND	ND
Selenium (Se)	460	ND	ND	ND	ND	ND	ND
Strontium (Sr)	56,000	ND	ND	ND	ND	ND	ND
Tin (Sn)	180,000	0.5	ND	ND	ND	ND	ND
Organic tin <sup>#</sup>	12	1.1	ND	ND	0.4	ND	ND
Zinc (Zn)	46,000	ND	ND	ND	ND	ND	ND

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Category III – Scraped-off toy material

Element	Migration limit (mg/kg)	Result (mg/kg)					
		Sample					
		25	26	27	28	29	30
Aluminium (Al)	70,000	ND	ND	ND	ND	ND	ND
Antimony (Sb)	560	ND	ND	ND	ND	ND	ND
Arsenic (As)	47	ND	ND	ND	ND	ND	ND
Barium (Ba)	18,750	ND	ND	ND	ND	ND	ND
Boron (B)	15,000	ND	ND	ND	ND	ND	ND
Cadmium (Cd)	17	ND	ND	ND	ND	ND	ND
Chromium (III)	460	BL	BL	BL	BL	BL	BL
Chromium (VI)	0.2	BL	BL	BL	BL	BL	BL
Cobalt (Co)	130	ND	ND	ND	ND	ND	ND
Copper (Cu)	7,700	ND	ND	ND	ND	ND	ND
Lead (Pb)	160	ND	ND	ND	ND	ND	ND
Manganese (Mn)	15,000	ND	ND	ND	ND	ND	ND
Mercury (Hg)	94	ND	ND	ND	ND	ND	ND
Nickel (Ni)	930	ND	ND	ND	ND	ND	ND
Selenium (Se)	460	ND	ND	ND	ND	ND	ND
Strontium (Sr)	56,000	ND	ND	ND	ND	ND	ND
Tin (Sn)	180,000	ND	ND	ND	ND	ND	ND
Organic tin <sup>#</sup>	12	ND	0.2	ND	ND	ND	ND
Zinc (Zn)	46,000	ND	ND	ND	ND	ND	ND

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Category III – Scraped-off toy material

Element	Migration limit (mg/kg)	Result (mg/kg)					
		Sample					
		31	32	33	34	35	36
Aluminium (Al)	70,000	ND	ND	ND	ND	ND	ND
Antimony (Sb)	560	ND	ND	ND	ND	ND	ND
Arsenic (As)	47	ND	ND	ND	ND	ND	ND
Barium (Ba)	18,750	ND	ND	ND	ND	ND	ND
Boron (B)	15,000	ND	ND	ND	ND	ND	ND
Cadmium (Cd)	17	ND	ND	ND	ND	ND	ND
Chromium (III)	460	BL	BL	BL	BL	BL	BL
Chromium (VI)	0.2	BL	BL	BL	BL	BL	BL
Cobalt (Co)	130	ND	ND	ND	ND	ND	ND
Copper (Cu)	7,700	ND	ND	ND	ND	ND	ND
Lead (Pb)	160	ND	ND	ND	ND	ND	ND
Manganese (Mn)	15,000	ND	ND	ND	ND	ND	ND
Mercury (Hg)	94	ND	ND	ND	ND	ND	ND
Nickel (Ni)	930	ND	ND	ND	ND	ND	ND
Selenium (Se)	460	ND	ND	ND	ND	ND	ND
Strontium (Sr)	56,000	ND	ND	ND	ND	ND	ND
Tin (Sn)	180,000	ND	ND	ND	ND	ND	ND
Organic tin <sup>#</sup>	12	ND	ND	ND	ND	ND	ND
Zinc (Zn)	46,000	ND	ND	ND	ND	ND	ND

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Category III – Scraped-off toy material

Element	Migration limit (mg/kg)	Result (mg/kg)					
		Sample					
		37	38	39	40	41	42
Aluminium (Al)	70,000	ND	ND	ND	ND	ND	ND
Antimony (Sb)	560	ND	ND	ND	ND	ND	ND
Arsenic (As)	47	ND	ND	ND	ND	ND	ND
Barium (Ba)	18,750	ND	ND	ND	ND	ND	ND
Boron (B)	15,000	ND	ND	ND	ND	ND	ND
Cadmium (Cd)	17	ND	ND	ND	ND	ND	ND
Chromium (III)	460	BL	BL	BL	BL	BL	BL
Chromium (VI)	0.2	BL	BL	BL	BL	BL	BL
Cobalt (Co)	130	ND	ND	ND	ND	ND	ND
Copper (Cu)	7,700	ND	ND	ND	ND	ND	ND
Lead (Pb)	160	ND	ND	ND	ND	ND	ND
Manganese (Mn)	15,000	ND	ND	ND	ND	ND	ND
Mercury (Hg)	94	ND	ND	ND	ND	ND	ND
Nickel (Ni)	930	ND	ND	ND	ND	ND	ND
Selenium (Se)	460	ND	ND	ND	ND	ND	ND
Strontium (Sr)	56,000	ND	ND	ND	ND	ND	ND
Tin (Sn)	180,000	ND	ND	ND	ND	ND	ND
Organic tin <sup>#</sup>	12	ND	ND	ND	ND	ND	ND
Zinc (Zn)	46,000	ND	ND	ND	ND	ND	ND

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Category III – Scraped-off toy material

Element	Migration limit (mg/kg)	Result (mg/kg)					
		Sample					
		43	44	45	46	47	48
Aluminium (Al)	70,000	ND	ND	ND	ND	ND	ND
Antimony (Sb)	560	ND	ND	ND	ND	ND	ND
Arsenic (As)	47	ND	ND	ND	ND	ND	ND
Barium (Ba)	18,750	ND	ND	ND	ND	ND	ND
Boron (B)	15,000	ND	ND	ND	ND	ND	ND
Cadmium (Cd)	17	ND	ND	ND	ND	ND	ND
Chromium (III)	460	BL	0.052	BL	BL	BL	BL
Chromium (VI)	0.2	BL	ND	BL	BL	BL	BL
Cobalt (Co)	130	ND	ND	ND	ND	ND	ND
Copper (Cu)	7,700	ND	ND	ND	ND	ND	ND
Lead (Pb)	160	ND	ND	ND	ND	ND	ND
Manganese (Mn)	15,000	ND	ND	ND	ND	ND	ND
Mercury (Hg)	94	ND	ND	ND	ND	ND	ND
Nickel (Ni)	930	ND	ND	ND	ND	ND	ND
Selenium (Se)	460	ND	ND	ND	ND	ND	ND
Strontium (Sr)	56,000	ND	ND	ND	ND	ND	ND
Tin (Sn)	180,000	ND	0.3	ND	ND	ND	ND
Organic tin <sup>#</sup>	12	ND	0.8	ND	ND	ND	ND
Zinc (Zn)	46,000	ND	ND	ND	ND	ND	ND

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## Test Report

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**No.** : HP20060658

**III.** EN 71 : Part 3 : 2019

Test Method: Heavy element analysis was determined by Inductively Coupled Plasma Spectrometry (ICP-OES) and/or Inductively Coupled Plasma Mass Spectrometry (ICP-MS) and/or Gas Chromatography Mass Spectrometry (GCMS).

Category III – Scraped-off toy material

Element	Migration limit (mg/kg)	Result (mg/kg)	
		Sample	
		49	50
Aluminium (Al)	70,000	ND	ND
Antimony (Sb)	560	ND	ND
Arsenic (As)	47	ND	ND
Barium (Ba)	18,750	ND	ND
Boron (B)	15,000	ND	ND
Cadmium (Cd)	17	ND	ND
Chromium (III)	460	BL	BL
Chromium (VI)	0.2	BL	BL
Cobalt (Co)	130	ND	ND
Copper (Cu)	7,700	ND	ND
Lead (Pb)	160	ND	ND
Manganese (Mn)	15,000	ND	ND
Mercury (Hg)	94	ND	ND
Nickel (Ni)	930	ND	ND
Selenium (Se)	460	ND	ND
Strontium (Sr)	56,000	ND	ND
Tin (Sn)	180,000	0.5	ND
Organic tin <sup>#</sup>	12	1.1	ND
Zinc (Zn)	46,000	ND	ND

- Note :
- All results are in mg/kg
  - < denotes less than
  - ≥ denotes greater than or equal to
  - For samples of migrated chromium content lower than migration limit of chromium (VI), no speciation test for chromium (III) and chromium (VI) were conducted. The results were derived from that of total chromium
  - For samples of migrated tin content calculated as tributyl tin lower than migration limit of organic tin, no organic tin test was conducted. Organic tin results were derived from that of total tin
  - ND = Not detected
  - BL = Below Limit

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III. EN 71 : Part 3 : 2019

Category III – Scraped-off toy material

- Note :
- The samples with sample weight less than 100 mg, were assumed to be 100 mg in calculation (except glass/ceramic/metallic materials)
  - <sup>#</sup>Organic tin compounds under investigation are limited to methyltin, butyltin, dibutyltin, tributyltin, tetrabutyltin, monooctyltin, dioctyltin, dipropyltin, diphenyltin and triphenyltin. Other organic tin compounds may also be present in toys

Sample	Description	Sample weight
1	Instruction sheet(#1/#2/#3/#4/#5/#6/#7): red/blue/green/black multicolor coating	≥100 mg
2	Instruction sheet(#1/#2/#3/#4/#5/#6/#7): white paper	≥100 mg
3	Basic parts: red ABS	≥100 mg
4	Basic parts: blue ABS	≥100 mg
5	Basic parts: yellow ABS	≥100 mg
6	Basic parts: green ABS	≥100 mg
7	Basic parts: pink ABS	≥100 mg
8	Basic parts: sky blue ABS	≥100 mg
9	Basic parts: orange ABS	≥100 mg
10	Basic parts: lime ABS	≥100 mg
11	Basic parts: white ABS	≥100 mg
12	Basic parts: black ABS	≥100 mg
13	Basic parts: brown ABS	≥100 mg
14	Basic parts: gray ABS	≥100 mg
15	Basic parts: lavender ABS	≥100 mg
16	Center of middle size wheel: dull white ABS	≥100 mg
17	Basic parts: red POM	≥100 mg
18	Basic parts: blue POM	≥100 mg
19	Basic parts: yellow POM	≥100 mg
20	Basic parts: green POM	≥100 mg
21	Basic parts: pink POM	≥100 mg
22	Basic parts: sky blue POM	≥100 mg
23	Basic parts: orange POM	≥100 mg
24	Basic parts: lime POM	≥100 mg
25	Basic parts: white POM	≥100 mg
26	Basic parts: black POM	≥100 mg
27	Basic parts: brown POM	≥100 mg
28	Basic parts: gray POM	≥100 mg
29	Basic parts: lavender POM	≥100 mg

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### III. EN 71 : Part 3 : 2019

#### Category III – Scraped-off toy material

- Note :
- The samples with sample weight less than 100 mg, were assumed to be 100 mg in calculation (except glass/ceramic/metallic materials)
  - <sup>#</sup>Organic tin compounds under investigation are limited to methyltin, butyltin, dibutyltin, tributyltin, tetrabutyltin, monooctyltin, dioctyltin, dipropyltin, diphenyltin and triphenyltin. Other organic tin compounds may also be present in toys

Sample	Description	Sample weight
30	Wheel: dull gray POM	≥100 mg
31	Shaft/long shaft/ mini shaft: dull black POM	≥100 mg
32	Center of mini wheel: dull white POM	≥100 mg
33	Clear parts: transparent PMMA	≥100 mg
34	Clear parts: transparent red PMMA	≥100 mg
35	Clear parts: transparent blue PMMA	≥100 mg
36	Clear parts: transparent yellow PMMA	≥100 mg
37	Clear parts: transparent PC	≥100 mg
38	Clear parts: transparent red PC	≥100 mg
39	Clear parts: transparent blue PC	≥100 mg
40	Clear parts: transparent yellow PC	≥100 mg
41	Tire of middle size wheel/tire of mini wheel: black PE	≥100 mg
42	Headband: white PP	≥100 mg
43	Blister case: orange plastic	≥100 mg
44	Blister case: red plastic	≥100 mg
45	Blister case: blue plastic	≥100 mg
46	Blister case: pink plastic	≥100 mg
47	Blister case: lime plastic	≥100 mg
48	Large container/small container: translucent white plastic	≥100 mg
49	Handle of large container/handle of small container: white plastic	≥100 mg
50	Cover of large container/cover of small container: translucent blue plastic	≥100 mg

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- IV. Regulation (EC) No. 1907/2006 of the European Parliament and of the Council, Annex XVII, Entry 23 and its amendment  
Regulation (EU) No. 494/2011 and No. 835/2012  
- Cadmium content (formerly Directive 91/338/EEC).

Test Method: Acid digestion followed by Atomic Absorption Spectrophotometry and/or Inductively Coupled Plasma Spectrometry (ICP-OES) analysis.

### For plastic material

	Test item
	Total Cadmium
Maximum permissible level (mg/kg)	100
Sample	
1	<5
2	<5
3,4,5	<5
6,7,8	<5
9,10,11	<5
12,13,14	<5
15,16,17	<5
18,19,20	<5
21,22,23	<5
24,25,26	<5
27,28,29	<5
30,31,32	<5
33,34,35	<5
36,37,38	<5
39,40,41	<5
42,43,44	<5
45,46,47	<5
48,49,50	<5

- Note :
- All results are in mg/kg
  - < denotes less than
  - # denotes composite sample. The results for composite sample are calculated based on the component with the least weight.

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Regulation (EU) No. 494/2011 and No. 835/2012  
- Cadmium content (formerly Directive 91/338/EEC).

Test Method: Acid digestion followed by Atomic Absorption Spectrophotometry and/or Inductively Coupled Plasma Spectrometry (ICP-OES) analysis.

Sample	Description
1	Instruction sheet(#1/#2/#3/#4/#5/#6/#7): red/blue/green/black multicolor coating
2	Instruction sheet(#1/#2/#3/#4/#5/#6/#7): white paper
3	Basic parts: red ABS
4	Basic parts: blue ABS
5	Basic parts: yellow ABS
6	Basic parts: green ABS
7	Basic parts: pink ABS
8	Basic parts: sky blue ABS
9	Basic parts: orange ABS
10	Basic parts: lime ABS
11	Basic parts: white ABS
12	Basic parts: black ABS
13	Basic parts: brown ABS
14	Basic parts: gray ABS
15	Basic parts: lavender ABS
16	Center of middle size wheel: dull white ABS
17	Basic parts: red POM
18	Basic parts: blue POM
19	Basic parts: yellow POM
20	Basic parts: green POM
21	Basic parts: pink POM
22	Basic parts: sky blue POM
23	Basic parts: orange POM
24	Basic parts: lime POM
25	Basic parts: white POM
26	Basic parts: black POM
27	Basic parts: brown POM
28	Basic parts: gray POM
29	Basic parts: lavender POM
30	Wheel: dull gray POM
31	Shaft/long shaft/ mini shaft: dull black POM
32	Center of mini wheel: dull white POM

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- IV. Regulation (EC) No. 1907/2006 of the European Parliament and of the Council, Annex XVII, Entry 23 and its amendment  
Regulation (EU) No. 494/2011 and No. 835/2012  
- Cadmium content (formerly Directive 91/338/EEC).

Test Method: Acid digestion followed by Atomic Absorption Spectrophotometry and/or Inductively Coupled Plasma Spectrometry (ICP-OES) analysis.

Sample	Description
33	Clear parts: transparent PMMA
34	Clear parts: transparent red PMMA
35	Clear parts: transparent blue PMMA
36	Clear parts: transparent yellow PMMA
37	Clear parts: transparent PC
38	Clear parts: transparent red PC
39	Clear parts: transparent blue PC
40	Clear parts: transparent yellow PC
41	Tire of middle size wheel/tire of mini wheel: black PE
42	Headband: white PP
43	Blister case: orange plastic
44	Blister case: red plastic
45	Blister case: blue plastic
46	Blister case: pink plastic
47	Blister case: lime plastic
48	Large container/small container: translucent white plastic
49	Handle of large container/handle of small container: white plastic
50	Cover of large container/cover of small container: translucent blue plastic

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- V. European Regulation (EU) No. 1907/2006(REACH) Annex XVII Entry 51 & 52 and its amendment Commission Regulation (EU) 2018/2005 – Phthalate content.

Test Method: Phthalate analysis was determined by Gas Chromatography.

Sample	Phthalates content, %(w/w)						
	DBP	BBP	DEHP	DIBP	DNOP	DINP	DIDP
1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2,3,4	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
5,6,7	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
8,9,10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
11,12,13	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
14,15,16	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
17,18,19	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
20,21,22	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
23,24,25	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
26,27,28	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
29,30,31	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
32,33,34	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
35,36,37	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
38,39,40	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
41,42,43	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
44,45,46	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
47,48,49	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Limit	Individually or in any combination of the DBP, BBP DEHP and DIBP shall not be equal to or greater than 0.1% by mass of the plasticised material.				The cumulative total of DNOP, DINP and DIDP shall not be greater than 0.1% by mass of the plasticised material.		

**Remark:**

- DBP =Di-n-butyl phthalate
- BBP =Benzyl-n-butyl phthalate
- DEHP = Di (2-ethylhexyl) phthalate
- DIBP = Diisobutyl phthalate
- DNOP = Di-n-octyl phthalate
- DINP = Diisononyl phthalate
- DIDP = Diisodecyl phthalate
- %(w/w) = percentage weight per weight
- Method detection limit = 0.01%(w/w)
- The requirements of DNOP, DINP and DIDP are only applicable on tested material which can be placed in the mouth by children.

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- Note :
- All results are in % w/w
  - % w/w denotes percentage by weight
  - < denotes less than
  - # denotes composite sample. The results for composite sample are calculated based on the component with the least weight.
  - DEHP = Di (2-ethylhexyl) Phthalate; DBP = Dibutyl Phthalate; BBP = Butyl Benzyl Phthalate; DINP = Diisononyl Phthalate; DIDP = Diisodecyl Phthalate; DNOP = Di-n-octyl Phthalate

- V. Regulation (EC) No. 1907/2006 of the European Parliament and of the Council, Annex XVII  
- Phthalates contents (formerly Directive 2005/84/EC)

Test Method: Phthalate analysis was determined by Gas Chromatography.

Sample	Description
1	Instruction sheet(#1/#2/#3/#4/#5/#6/#7): red/blue/green/black multicolor coating
2	Basic parts: red ABS
3	Basic parts: blue ABS
4	Basic parts: yellow ABS
5	Basic parts: green ABS
6	Basic parts: pink ABS
7	Basic parts: sky blue ABS
8	Basic parts: orange ABS
9	Basic parts: lime ABS
10	Basic parts: white ABS
11	Basic parts: black ABS
12	Basic parts: brown ABS
13	Basic parts: gray ABS
14	Basic parts: lavender ABS
15	Center of middle size wheel: dull white ABS
16	Basic parts: red POM
17	Basic parts: blue POM
18	Basic parts: yellow POM
19	Basic parts: green POM
20	Basic parts: pink POM
21	Basic parts: sky blue POM
22	Basic parts: orange POM
23	Basic parts: lime POM
24	Basic parts: white POM
25	Basic parts: black POM
26	Basic parts: brown POM

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- V. Regulation (EC) No. 1907/2006 of the European Parliament and of the Council,  
Annex XVII  
- Phthalates contents (formerly Directive 2005/84/EC)

Test Method: Phthalate analysis was determined by Gas Chromatography.

Sample	Description
27	Basic parts: gray POM
28	Basic parts: lavender POM
29	Wheel: dull gray POM
30	Shaft/long shaft/ mini shaft: dull black POM
31	Center of mini wheel: dull white POM
32	Clear parts: transparent PMMA
33	Clear parts: transparent red PMMA
34	Clear parts: transparent blue PMMA
35	Clear parts: transparent yellow PMMA
36	Clear parts: transparent PC
37	Clear parts: transparent red PC
38	Clear parts: transparent blue PC
39	Clear parts: transparent yellow PC
40	Tire of middle size wheel/tire of mini wheel: black PE
41	Headband: white PP
42	Blister case: orange plastic
43	Blister case: red plastic
44	Blister case: blue plastic
45	Blister case: pink plastic
46	Blister case: lime plastic
47	Large container/small container: translucent white plastic
48	Handle of large container/handle of small container: white plastic
49	Cover of large container/cover of small container: translucent blue plastic

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VI. ASTM F963-17

a. Physical and Mechanical Tests (For items ①, ②, ④, ⑤, ⑦)

<u>Applicable clause</u>	<u>Description</u>	<u>Result</u>
4.1	Material Quality – Visual Inspection	Pass
4.2	Flammability	Pass
4.6	<u>Small Objects</u>	
4.6.3	Toys intended for children > 3 years but < 6 years, 16 CFR 1500.19 Small objects labeling requirement	Pass
4.7	Accessible edges 16 CFR 1500.49 Sharp metal or glass edges	Pass
4.9	Accessible points 16 CFR 1500.48 Sharp points	Pass
4.12	Plastic film	Pass
5	<u>Labeling requirements</u>	Pass
5.1	Federal government requirements	Pass
5.2	Age grading labeling	Pass
5.3	Safety labeling requirements	Pass
5.11	Small objects, small balls, marbles, and balloons 16 CFR 1500.19	Pass
5.16	Promotional materials	Pass
7	<u>Producer's markings</u>	
7.1	Producer's markings	Pass

b. Physical and Mechanical Tests (For items ③, ⑥)

<u>Applicable clause</u>	<u>Description</u>	<u>Result</u>
4.1	Material Quality – Visual Inspection	Pass
4.2	Flammability	Pass
4.6	<u>Small Objects</u>	
4.6.3	Toys intended for children > 3 years but < 6 years, 16 CFR 1500.19 Small objects labeling requirement	Pass
4.7	Accessible edges 16 CFR 1500.49 Sharp metal or glass edges	Pass
4.9	Accessible points 16 CFR 1500.48 Sharp points	Pass
4.12	Plastic film	Pass
4.17	Wheel, tires, and axles	Pass
5	<u>Labeling requirements</u>	Pass
5.1	Federal government requirements	Pass
5.2	Age grading labeling	Pass

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<u>Applicable clause</u>	<u>Description</u>	<u>Result</u>
5.3	Safety labeling requirements	Pass
5.11	Small objects, small balls, marbles, and balloons 16 CFR 1500.19	Pass
5.16	Promotional materials	Pass
7	<u>Producer's markings</u>	
7.1	Producer's markings	Pass

Remark : The sample(s) were subjected to the normal use and abuse tests in according with Clause 8.5 Normal Use Testing, 8.7 Impact test, 8.8 Torque test, 8.9 Tension test, 8.10 Compression test and 8.12 Flexure test whichever was applicable.

Use and abuse test criteria:

Test	Age Category, months	Test Parameters	16 CFR Reference
Drop test	0 to 18	10 x 4.5 ft	1500.51(b)(3)
	over 18 to 36	4 x 3 ft	1500.52(b)(3)
	over 36 to 96	4 x 3 ft	1500.53(b)(3)
Tip over test	-	3 times	1500.51/52/53 (b)(4)
Tumble test	-	2 x 4 attitudes	-
Steel ball impact test	-	50 inches	-
Torque test	0 to 18	2 in-lbf	1500.51(e)
	over 18 to 36	3 in-lbf	1500.52(e)
	over 36 to 96	4 in-lbf	1500.53(e)
Tension test	0 to 18	10 lbf	1500.51(f)
	over 18 to 36	15 lbf	1500.52(f)
	over 36 to 96	15 lbf	1500.53(f)
Compression test	0 to 18	20 lbf	1500.51(g)
	over 18 to 36	25 lbf	1500.52(g)
	over 36 to 96	30 lbf	1500.53(g)
Flexure test	0 to 18	120 x 30 cycles (10 lbf)	1500.51(d)
	over 18 to 36	120 x 30 cycles (15 lbf)	1500.52(d)
	over 36 to 96	120 x 30 cycles (15 lbf)	1500.53(d)

### b. Flammability Test

<u>Applicable clause</u>	<u>Description</u>	<u>Result</u>
4.2	Flammability Materials other than textiles (16 CFR 1500.3 (c) (6) (vi)) Test method : Annex A5 (16 CFR 1500.44)	Pass

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VI. ASTM F963-17

Heavy element (in composite condition)

Ref.: ASTM F963-17 Section 4.3.5

Method: ASTM F963-17 Section 8.3

Determined by: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

	Test Item
	Total Lead
Permissible Limit (ppm)	100(**)
Sample	
1	<10
2,3,4	<10
5,6,7	<10
8,9,10	<10
11,12,13	<10
14,15,16	<10
17,18,19	<10
20,21,22	<10
23,24,25	<10
26,27,28	<10
29,30,31	<10
32,33,34	<10
35,36,37	<10
38,39,40	<10
41,42,43	<10
44,45,46	<10
48,48,49	<10

Note : (\*\*) 100 ppm limit applies to product produced on or after 14 Aug 2011

- All results are in ppm
- < denotes less than
- # denotes composite sample. The results for composite sample are calculated based on the component with the least weight.

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## Test Report

**Date** : 2020-07-02

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**No.** : HP20060658

### VI. ASTM F963-17

#### Heavy element

Ref.: ASTM F963-17 Section 4.3.5

Method: ASTM F963-17 Section 8.3

Determined by: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

Sample	Description
1	Instruction sheet(#1/#2/#3/#4/#5/#6/#7): white paper
2	Basic parts: red ABS
3	Basic parts: blue ABS
4	Basic parts: yellow ABS
5	Basic parts: green ABS
6	Basic parts: pink ABS
7	Basic parts: sky blue ABS
8	Basic parts: orange ABS
9	Basic parts: lime ABS
10	Basic parts: white ABS
11	Basic parts: black ABS
12	Basic parts: brown ABS
13	Basic parts: gray ABS
14	Basic parts: lavender ABS
15	Center of middle size wheel: dull white ABS
16	Basic parts: red POM
17	Basic parts: blue POM
18	Basic parts: yellow POM
19	Basic parts: green POM
20	Basic parts: pink POM
21	Basic parts: sky blue POM
22	Basic parts: orange POM
23	Basic parts: lime POM
24	Basic parts: white POM
25	Basic parts: black POM
26	Basic parts: brown POM
27	Basic parts: gray POM
28	Basic parts: lavender POM
29	Wheel: dull gray POM
30	Shaft/long shaft/ mini shaft: dull black POM

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**No.** : HP20060658

**VI.** ASTM F963-17

Heavy element

Ref.: ASTM F963-17 Section 4.3.5

Method: ASTM F963-17 Section 8.3

Determined by: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

Sample	Description
31	Center of mini wheel: dull white POM
32	Clear parts: transparent PMMA
33	Clear parts: transparent red PMMA
34	Clear parts: transparent blue PMMA
35	Clear parts: transparent yellow PMMA
36	Clear parts: transparent PC
37	Clear parts: transparent red PC
38	Clear parts: transparent blue PC
39	Clear parts: transparent yellow PC
40	Tire of middle size wheel/tire of mini wheel: black PE
41	Headband: white PP
42	Blister case: orange plastic
43	Blister case: red plastic
44	Blister case: blue plastic
45	Blister case: pink plastic
46	Blister case: lime plastic
47	Large container/small container: translucent white plastic
48	Handle of large container/handle of small container: white plastic
49	Cover of large container/cover of small container: translucent blue plastic

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## Test Report

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**No.** : HP20060658

Heavy element

Ref.: ASTM F963-17 Section 4.3.5

Method: ASTM F963-17 Section 8.3

Determined by: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

	Test Item
	Total Lead
Permissible Limit (ppm)	90(**)
Sample	
1	<10

Note : (\*\*) 90 ppm limit applies to product produced on or after 14 Aug 2011

- All results are in ppm
- < denotes less than
- # denotes composite sample. The results for composite sample are calculated based on the component with the least weight.

VI. ASTM F963-17

Heavy element

Ref.: ASTM F963-17 Section 4.3.5

Method: ASTM F963-17 Section 8.3

Determined by: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

Sample	Description
1	Instruction sheet(#1/#2/#3/#4/#5/#6/#7): red/blue/green/black multicolor coating

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No. : HP20060658

VI. ASTM F963-17

Heavy element

Ref.: ASTM F963-17 Section 4.3.5

Method: ASTM F963-17 Section 8.3

Determined by: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

	Test Item							
	As	Hg	Se	Cd	Sb	Pb	Cr	Ba
Maximum Permissible Level (ppm)	25	60	500	75	60	90	60	1000
Sample								
1	<5	<5	<5	<5	<5	<5	<5	<20
2	<5	<5	<5	<5	<5	<5	<5	<20
3	<5	<5	<5	<5	<5	<5	<5	<20
4	<5	<5	<5	<5	<5	<5	<5	<20
5	<5	<5	<5	<5	<5	<5	<5	<20
6	<5	<5	<5	<5	<5	<5	<5	<20
7	<5	<5	<5	<5	<5	<5	<5	<20
8	<5	<5	<5	<5	<5	<5	<5	<20
9	<5	<5	<5	<5	<5	<5	<5	<20
10	<5	<5	<5	<5	<5	<5	<5	<20
11	<5	<5	<5	<5	<5	<5	<5	<20
12	<5	<5	<5	<5	<5	<5	<5	<20
13	<5	<5	<5	<5	<5	<5	<5	<20
14	<5	<5	<5	<5	<5	<5	<5	<20
15	<5	<5	<5	<5	<5	<5	<5	<20
16	<5	<5	<5	<5	<5	<5	<5	<20
17	<5	<5	<5	<5	<5	<5	<5	<20
18	<5	<5	<5	<5	<5	<5	<5	<20
19	<5	<5	<5	<5	<5	<5	<5	<20
20	<5	<5	<5	<5	<5	<5	<5	<20
21	<5	<5	<5	<5	<5	<5	<5	<20
22	<5	<5	<5	<5	<5	<5	<5	<20
23	<5	<5	<5	<5	<5	<5	<5	<20
24	<5	<5	<5	<5	<5	<5	<5	<20
25	<5	<5	<5	<5	<5	<5	<5	<20
26	<5	<5	<5	<5	<5	<5	<5	<20
27	<5	<5	<5	<5	<5	<5	<5	<20

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**No.** : HP20060658

**VI.** ASTM F963-17

Heavy element

Ref.: ASTM F963-17 Section 4.3.5

Method: ASTM F963-17 Section 8.3

Determined by: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

	Test Item							
	As	Hg	Se	Cd	Sb	Pb	Cr	Ba
Maximum Permissible Level (ppm)	25	60	500	75	60	90	60	1000
Sample								
28	<5	<5	<5	<5	<5	<5	<5	<20
29	<5	<5	<5	<5	<5	<5	<5	<20
30	<5	<5	<5	<5	<5	<5	<5	<20
31	<5	<5	<5	<5	<5	<5	<5	<20
32	<5	<5	<5	<5	<5	<5	<5	<20
33	<5	<5	<5	<5	<5	<5	<5	<20
34	<5	<5	<5	<5	<5	<5	<5	<20
35	<5	<5	<5	<5	<5	<5	<5	<20
36	<5	<5	<5	<5	<5	<5	<5	<20
37	<5	<5	<5	<5	<5	<5	<5	<20
38	<5	<5	<5	<5	<5	<5	<5	<20
39	<5	<5	<5	<5	<5	<5	<5	<20
40	<5	<5	<5	<5	<5	<5	<5	<20
41	<5	<5	<5	<5	<5	<5	<5	<20
42	<5	<5	<5	<5	<5	<5	<5	<20
43	<5	<5	<5	<5	<5	<5	<5	<20
44	<5	<5	<5	<5	<5	<5	<5	<20
45	<5	<5	<5	<5	<5	<5	<5	<20
46	<5	<5	<5	<5	<5	<5	<5	<20
47	<5	<5	<5	<5	<5	<5	<5	<20
48	<5	<5	<5	<5	<5	<5	<5	<20
49	<5	<5	<5	<5	<5	<5	<5	<20
50	<5	<5	<5	<5	<5	<5	<5	<20

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- Note :
- All results are in ppm
  - ppm denotes part per million by weight
  - < denotes less than
  - ≥ denotes greater than or equal to
  - As = Arsenic; Hg = Mercury; Se = Selenium; Cd = Cadmium; Sb = Antimony; Pb = Lead; Cr = Chromium; Ba = Barium

### VI. ASTM F963-17

#### Heavy element

Ref.: ASTM F963-17 Section 4.3.5

Method: ASTM F963-17 Section 8.3

Determined by: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

Sample	Description	Sample weight
1	Instruction sheet(#1/#2/#3/#4/#5/#6/#7): red/blue/green/black multicolor coating	≥100 mg
2	Instruction sheet(#1/#2/#3/#4/#5/#6/#7): white paper	≥100 mg
3	Basic parts: red ABS	≥100 mg
4	Basic parts: blue ABS	≥100 mg
5	Basic parts: yellow ABS	≥100 mg
6	Basic parts: green ABS	≥100 mg
7	Basic parts: pink ABS	≥100 mg
8	Basic parts: sky blue ABS	≥100 mg
9	Basic parts: orange ABS	≥100 mg
10	Basic parts: lime ABS	≥100 mg
11	Basic parts: white ABS	≥100 mg
12	Basic parts: black ABS	≥100 mg
13	Basic parts: brown ABS	≥100 mg
14	Basic parts: gray ABS	≥100 mg
15	Basic parts: lavender ABS	≥100 mg
16	Center of middle size wheel: dull white ABS	≥100 mg
17	Basic parts: red POM	≥100 mg
18	Basic parts: blue POM	≥100 mg
19	Basic parts: yellow POM	≥100 mg
20	Basic parts: green POM	≥100 mg
21	Basic parts: pink POM	≥100 mg
22	Basic parts: sky blue POM	≥100 mg
23	Basic parts: orange POM	≥100 mg
24	Basic parts: lime POM	≥100 mg
25	Basic parts: white POM	≥100 mg
26	Basic parts: black POM	≥100 mg
27	Basic parts: brown POM	≥100 mg

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**No.** : HP20060658

**VI.** ASTM F963-17

Heavy element

Ref.: ASTM F963-17 Section 4.3.5

Method: ASTM F963-17 Section 8.3

Determined by: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

Sample	Description	Sample weight
28	Basic parts: gray POM	≥100 mg
29	Basic parts: lavender POM	≥100 mg
30	Wheel: dull gray POM	≥100 mg
31	Shaft/long shaft/ mini shaft: dull black POM	≥100 mg
32	Center of mini wheel: dull white POM	≥100 mg
33	Clear parts: transparent PMMA	≥100 mg
34	Clear parts: transparent red PMMA	≥100 mg
35	Clear parts: transparent blue PMMA	≥100 mg
36	Clear parts: transparent yellow PMMA	≥100 mg
37	Clear parts: transparent PC	≥100 mg
38	Clear parts: transparent red PC	≥100 mg
39	Clear parts: transparent blue PC	≥100 mg
40	Clear parts: transparent yellow PC	≥100 mg
41	Tire of middle size wheel/tire of mini wheel: black PE	≥100 mg
42	Headband: white PP	≥100 mg
43	Blister case: orange plastic	≥100 mg
44	Blister case: red plastic	≥100 mg
45	Blister case: blue plastic	≥100 mg
46	Blister case: pink plastic	≥100 mg
47	Blister case: lime plastic	≥100 mg
48	Large container/small container: translucent white plastic	≥100 mg
49	Handle of large container/handle of small container: white plastic	≥100 mg
50	Cover of large container/cover of small container: translucent blue plastic	≥100 mg

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## Test Report

**Date** : 2020-07-02

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**No.** : HP20060658

**VII.** Children's products containing lead - Total lead content in substrate (in composite condition)

Ref.: CPSIA Sec 101(a) and 15 U.S. Code § 1278a.

Test method: Standard operation procedure for determining total lead (Pb) in non-metal children's products, CPSC-CH-E1002-08.1

Test method: Standard operation procedure for determining total lead (Pb) in metal children's products, CPSC-CH-E1001-08.3

Determined by: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

For materials and substrate

	Test Item
	Total Lead
Permissible Limit (mg/kg)	100(*)
Sample	
1	<10
2,3,4	<10
5,6,7	<10
8,9,10	<10
11,12,13	<10
14,15,16	<10
17,18,19	<10
20,21,22	<10
23,24,25	<10
26,27,28	<10
29,30,31	<10
32,33,34	<10
35,36,37	<10
38,39,40	<10
41,42,43	<10
44,45,46	<10
48,48,49	<10

- Note :
- (\*) 100 ppm limit applies to product produced on or after 14 Aug 2011
  - All results are in mg/kg
  - < denotes less than
  - # denotes composite sample. The results for composite sample are calculated based on the component with the least weight.

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## Test Report

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**No.** : HP20060658

- VII. Children's products containing lead - Total lead content in substrate  
Ref.: CPSIA Sec 101(a) and 15 U.S. Code § 1278a.  
Test method: Standard operation procedure for determining total lead (Pb) in non-metal children's products, CPSC-CH-E1002-08.1  
Test method: Standard operation procedure for determining total lead (Pb) in metal children's products, CPSC-CH-E1001-08.3  
Determined by: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

Sample	Description
1	Instruction sheet(#1/#2/#3/#4/#5/#6/#7): white paper
2	Basic parts: red ABS
3	Basic parts: blue ABS
4	Basic parts: yellow ABS
5	Basic parts: green ABS
6	Basic parts: pink ABS
7	Basic parts: sky blue ABS
8	Basic parts: orange ABS
9	Basic parts: lime ABS
10	Basic parts: white ABS
11	Basic parts: black ABS
12	Basic parts: brown ABS
13	Basic parts: gray ABS
14	Basic parts: lavender ABS
15	Center of middle size wheel: dull white ABS
16	Basic parts: red POM
17	Basic parts: blue POM
18	Basic parts: yellow POM
19	Basic parts: green POM
20	Basic parts: pink POM
21	Basic parts: sky blue POM
22	Basic parts: orange POM
23	Basic parts: lime POM
24	Basic parts: white POM
25	Basic parts: black POM
26	Basic parts: brown POM
27	Basic parts: gray POM
28	Basic parts: lavender POM
29	Wheel: dull gray POM
30	Shaft/long shaft/ mini shaft: dull black POM

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- VII. Children's products containing lead - Total lead content in substrate  
Ref.: CPSIA Sec 101(a) and 15 U.S. Code § 1278a.  
Test method: Standard operation procedure for determining total lead (Pb) in non-metal children's products, CPSC-CH-E1002-08.1  
Test method: Standard operation procedure for determining total lead (Pb) in metal children's products, CPSC-CH-E1001-08.3  
Determined by: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

Sample	Description
31	Center of mini wheel: dull white POM
32	Clear parts: transparent PMMA
33	Clear parts: transparent red PMMA
34	Clear parts: transparent blue PMMA
35	Clear parts: transparent yellow PMMA
36	Clear parts: transparent PC
37	Clear parts: transparent red PC
38	Clear parts: transparent blue PC
39	Clear parts: transparent yellow PC
40	Tire of middle size wheel/tire of mini wheel: black PE
41	Headband: white PP
42	Blister case: orange plastic
43	Blister case: red plastic
44	Blister case: blue plastic
45	Blister case: pink plastic
46	Blister case: lime plastic
47	Large container/small container: translucent white plastic
48	Handle of large container/handle of small container: white plastic
49	Cover of large container/cover of small container: translucent blue plastic

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## Test Report

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**No.** : HP20060658

- VII. Children's products containing lead - Total lead content in paint and surface coating  
Ref.: CPSIA Sec. 101 (f), 16 CFR 1303 and 15 U.S. Code § 1278a.  
Test method: CPSC-CH-E 1003-09.1  
Determined by: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

For surface coating

	Test Item
	Total Lead
Permissible Limit (mg/kg)	90(*)
Sample	
1	<10

- Note : • (\*) 100 ppm limit applies to product produced on or after 14 Aug 2011  
• All results are in mg/kg  
• < denotes less than  
• # denotes composite sample. The results for composite sample are calculated based on the component with the least weight.

- VII. Children's products containing lead - Total lead content in paint and surface coating  
Ref.: CPSIA Sec. 101 (f), 16 CFR 1303 and 15 U.S. Code § 1278a.  
Test method: CPSC-CH-E 1003-09.1  
Determined by: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

Sample	Description
1	Instruction sheet(#1/#2/#3/#4/#5/#6/#7): red/blue/green/black multicolor coating

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VIII. Phthalates content (in composite condition)  
Ref.: CPSIA Sec. 108 & 16 CFR 1307 and 15 U.S. Code § 2057c.  
Test method: CPSC-CH-C1001-09.4 by Gas Chromatography with Mass Selective Detector

Sample No.	Phthalates content, %(w/w)									
	DBP	BBP	DEHP	DINP	DHEXP	DIBP	DPENP	DCHP	DNOP	DIDP
1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2,3,4	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
5,6,7	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
8,9,10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
11,12,13	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
14,15,16	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
17,18,19	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
20,21,22	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
23,24,25	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
26,27,28	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
29,30,31	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
32,33,34	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
35,36,37	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
38,39,40	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
41,42,43	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
44,45,46	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
47,48,49	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	See Note	

Remark:

- DBP =Di-n-butyl phthalate
- BBP =Benzyl-n-butyl phthalate
- DEHP = Di (2-ethylhexyl) phthalate
- DNOP = Di-n-octyl phthalate
- DINP = Diisononyl phthalate
- DIDP = Diisodecyl phthalate
- DHEXP =Di-n-hexyl phthalate
- DIBP =Diisobutyl phthalate
- DPENP =Di-n-pentyl phthalate
- DCHP =Dicyclohexyl phthalate
- %(w/w) =percentage weight per weight

Note : The results of DNOP and DIDP are for reference only.

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- Note :
- All results are in % w/w
  - % w/w denotes percentage by weight
  - < denotes less than
  - # denotes composite sample. The results for composite sample are calculated based on the component with the least weight.

**VIII.** Phthalates content

Ref.: CPSIA Sec. 108 & 16 CFR 1307 and 15 U.S. Code § 2057c.

Test method: CPSC-CH-C1001-09.4 by Gas Chromatography with Mass Selective Detector

Sample	Description
1	Instruction sheet(#1/#2/#3/#4/#5/#6/#7): red/blue/green/black multicolor coating
2	Basic parts: red ABS
3	Basic parts: blue ABS
4	Basic parts: yellow ABS
5	Basic parts: green ABS
6	Basic parts: pink ABS
7	Basic parts: sky blue ABS
8	Basic parts: orange ABS
9	Basic parts: lime ABS
10	Basic parts: white ABS
11	Basic parts: black ABS
12	Basic parts: brown ABS
13	Basic parts: gray ABS
14	Basic parts: lavender ABS
15	Center of middle size wheel: dull white ABS
16	Basic parts: red POM
17	Basic parts: blue POM
18	Basic parts: yellow POM
19	Basic parts: green POM
20	Basic parts: pink POM
21	Basic parts: sky blue POM
22	Basic parts: orange POM
23	Basic parts: lime POM
24	Basic parts: white POM
25	Basic parts: black POM
26	Basic parts: brown POM
27	Basic parts: gray POM
28	Basic parts: lavender POM

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**VIII.** Phthalates content

Ref.: CPSIA Sec. 108 & 16 CFR 1307 and 15 U.S. Code § 2057c.

Test method: CPSC-CH-C1001-09.4 by Gas Chromatography with Mass Selective Detector

Sample	Description
29	Wheel: dull gray POM
30	Shaft/long shaft/ mini shaft: dull black POM
31	Center of mini wheel: dull white POM
32	Clear parts: transparent PMMA
33	Clear parts: transparent red PMMA
34	Clear parts: transparent blue PMMA
35	Clear parts: transparent yellow PMMA
36	Clear parts: transparent PC
37	Clear parts: transparent red PC
38	Clear parts: transparent blue PC
39	Clear parts: transparent yellow PC
40	Tire of middle size wheel/tire of mini wheel: black PE
41	Headband: white PP
42	Blister case: orange plastic
43	Blister case: red plastic
44	Blister case: blue plastic
45	Blister case: pink plastic
46	Blister case: lime plastic
47	Large container/small container: translucent white plastic
48	Handle of large container/handle of small container: white plastic
49	Cover of large container/cover of small container: translucent blue plastic

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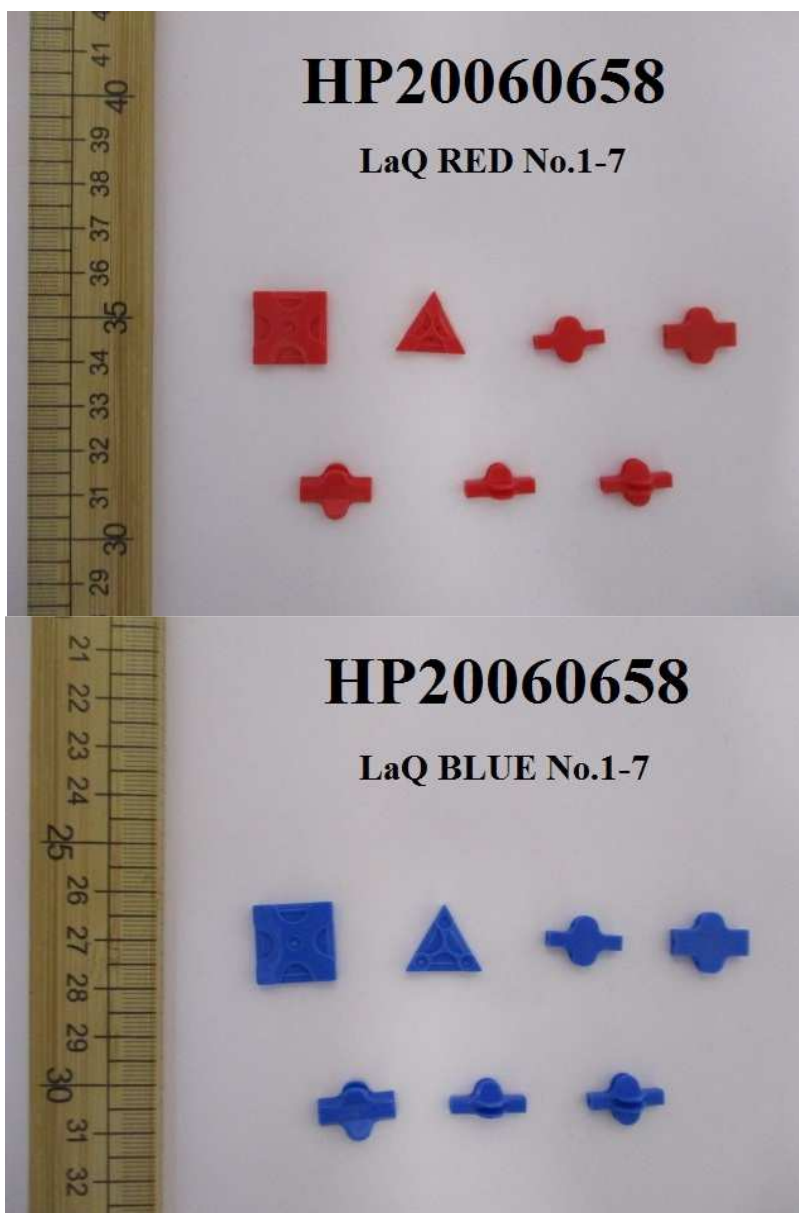
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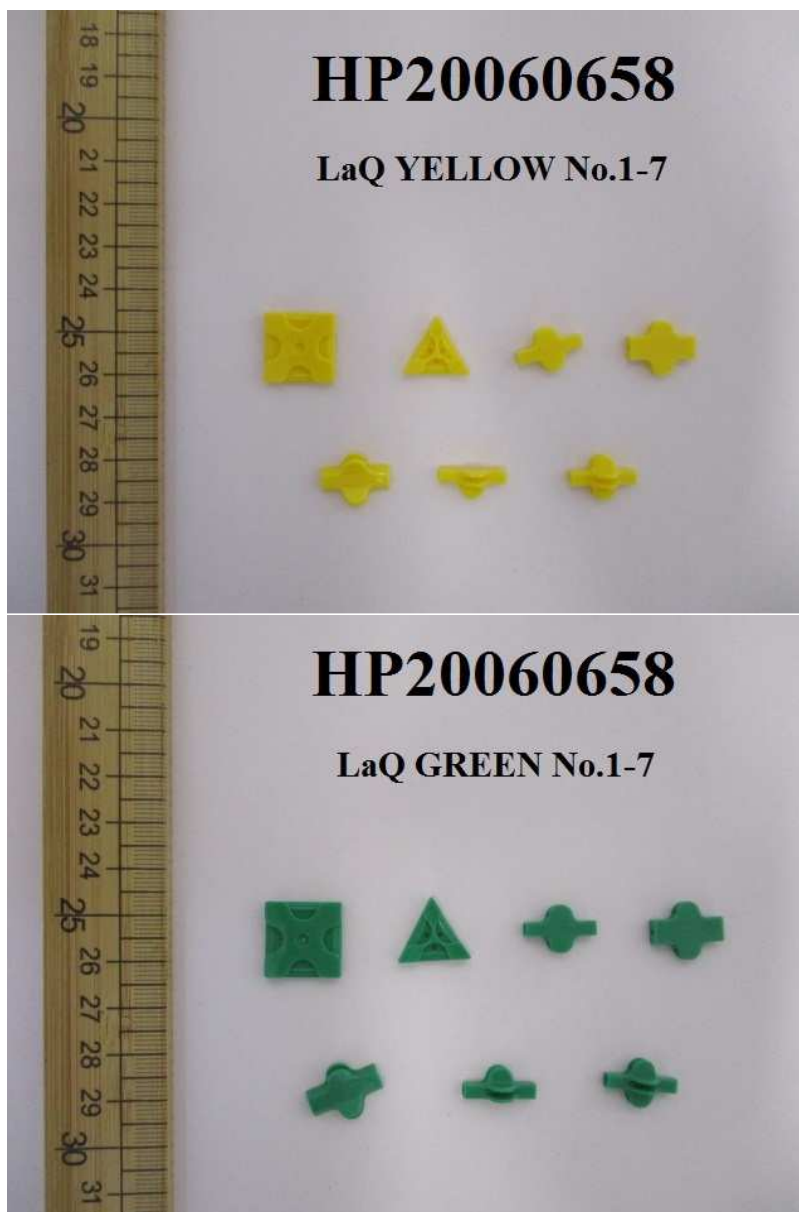
### Appendix for Photos of the Submitted Sample



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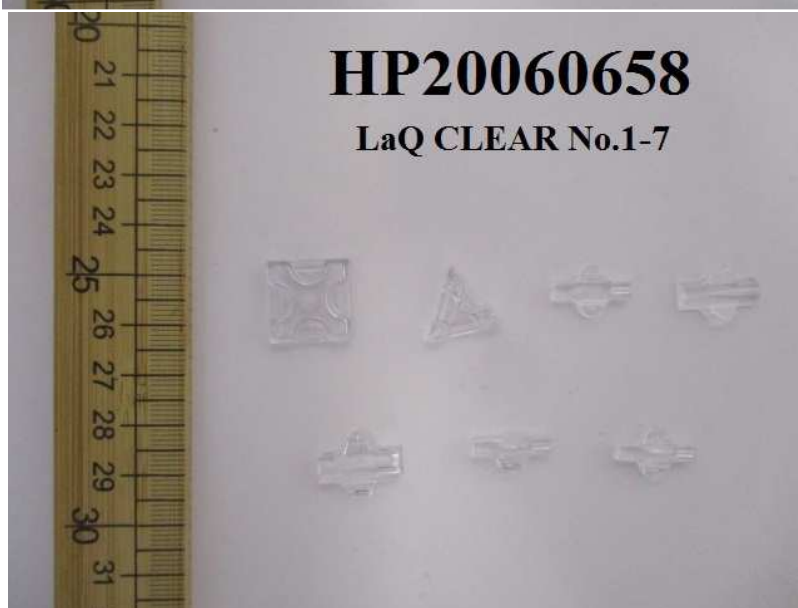
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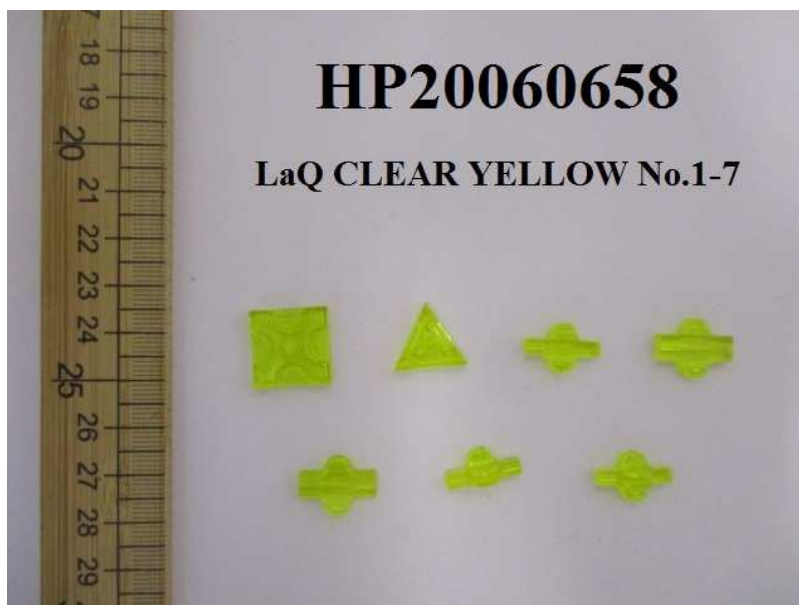
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