

Date: 2022-10-27 Page 1 of 79 **No.**: HP22100286

Applicant : Yoshiritsu Co., Ltd.

1563 Koshibe, Oyodo Yoshino, Nara 638-0803 Japan

Attn: Akie Kawai

Description of Samples: Four styles of submitted sample each in one set said to be:

(A) LaQ BASIC 85 3D

JAN Code: 4952907007919 (B) LaQ BASIC 400 FIRST SET JAN Code: 4952907007940

(C) LaQ ABC

JAN Code: 4952907007971 (D) LaQ BONUS SET 2022 JAN Code: 4952907007896

Labelled Age Grading : Age 5 years and up
Appropriate Age Grade : Age 5 years and up
Client's Requested Age Grading
Tested Age Grade : Age 5 years and up
: Age 5 years and up
: Age 5 years and up

Country of Origin : Japan

Date Samples Received : 2022-10-12 and 2022-10-26

Date Tested : 2022-10-12 to 2022-10-26





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Description of Samples: 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 LaO 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 LaO CLEAR BLUE No.1-7 LaO 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 BALL JOINT A and B

LaQ CROSS PART

LaO PARTS REMOVER **BLISTER CASE BLUE**

BLISTER CASE PINK

PLASTIC CONTAINER (SMALL) PLASTIC CONATINER (LARGE)

> WONG Wing-cheung, Benny **Authorized Signatory**

For Conditions of Issuance of this test report, please refer to "Conditions of Issuance of Test Reports" section or Website.



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		Test Item	Result
Test Requested :	I.	EN71 : Part 1 : 2014 + A1 : 2018 - Physical	Passed
•		and Mechanical Properties	
	II.	EN71 : Part 2 : 2020 - Flammability test	Passed
	III.	EN 71-3:2019+A1:2021 - Migration of	Passed
		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).	
	IV.	Regulation (EC) No. 1907/2006 of the	Passed
		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	
	T 7	91/338/EEC)	D 1
	V.	European Regulation (EU) No.	Passed
		1907/2006(REACH) Annex XVII Entry 51	
		& 52 and its amendment Commission	
		Regulation (EU) 2018/2005 —Phthalate content.	
	VI.	ASTM F963-17	
	V 1.		Passed
		Physical and Mechanical TestsFlammability Test	Passed
		- Heavy Elements Test (Clause 4.3.5)	Passed
	VII.	Lead content in accordance with U.S.	Passed
	٧ 11.	Consumer Product Safety Improvement Act	1 assea
		of 2008 - Sec. 101: Children's Products	
		Containing Lead; Lead Paint Rule	
	VIII.	Phthalates content as required by section	Passed
		108, USA Consumer Product Safety	
		Improvement Act and 16 CFR 1307 and 15	
		U.S. Code § 2057c.	

WONG Wing-cheung, Benny Authorized Signatory



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Test Requested: IX. Total lead content in accordance with Passed

California Proposition 65.

X. Phthalates content in accordance with Passed

California Proposition 65.

Test Result : Refer to the result pages for details.



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Test Results:

I. EN71: Part 1: 2014 + A1: 2018

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

*1= 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.

Note: For numerical result with upper[lower] limit, compliance is deemed to occur if the measured result is under[above] the upper[lower] limit, even when extended upwards [downwards]by the expanded uncertainty with 95% coverage probability.

II. EN71: Part 2: 2020

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

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

Note: For numerical result with upper[lower] limit, compliance is deemed to occur if the measured result is under[above] the upper[lower] limit, even when extended upwards [downwards]by the expanded uncertainty with 95% coverage probability.



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III. <u>EN 71-3:2019+A1:2021</u>

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).

Element	Migration limit (mg/kg) Result (mg/kg) Sample						
	(mg/kg)	Sample					
		1	2	3	4	5	6
Aluminium (Al)	28130	15	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	0.072	ND	ND	ND	ND	ND
Chromium (III)	460	0.072	BL	BL	BL	BL	BL
Chromium (VI)	0.053	ND	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)	23	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	0.2	ND	ND
Organic tin#	12	ND	ND	ND	0.53	ND	ND
Zinc (Zn)	46,000	ND	ND	ND	ND	ND	ND



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III. <u>EN 71-3:2019+A1:2021</u>

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).

Element	Migration limit						
	(mg/kg)			San	nple		
		7	8	9	10	11	12
Aluminium (Al)	28130	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)	0.053	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)	23	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 [#]	12	ND	ND	ND	ND	ND	ND
Zinc (Zn)	46,000	ND	ND	ND	ND	ND	ND



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III. <u>EN 71-3:2019+A1:2021</u>

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).

Element	Migration limit (mg/kg)	Result (mg/kg)					
	(mg/kg)			San	nple		
		13	14	15	16	17	18
Aluminium (Al)	28130	ND	ND	7	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	0.079	ND	ND
Chromium (III)	460	BL	BL	BL	0.079	BL	BL
Chromium (VI)	0.053	BL	BL	BL	ND	BL	BL
Cobalt (Co)	130	ND	ND	ND	ND	ND	ND
Copper (Cu)	7,700	ND	ND	ND	ND	ND	ND
Lead (Pb)	23	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 [#]	12	ND	ND	ND	ND	ND	ND
Zinc (Zn)	46,000	ND	ND	ND	ND	ND	ND



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III. <u>EN 71-3:2019+A1:2021</u>

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).

Element	Migration limit	Result (mg/kg)					
	(mg/kg)			San	nple		
		19	20	21	22	23	24
Aluminium (Al)	28130	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	0.053
Chromium (III)	460	BL	BL	BL	BL	BL	0.053
Chromium (VI)	0.053	BL	BL	BL	BL	BL	ND
Cobalt (Co)	130	ND	ND	ND	ND	ND	ND
Copper (Cu)	7,700	ND	ND	ND	ND	ND	ND
Lead (Pb)	23	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	0.2
Organic tin [#]	12	ND	ND	ND	ND	ND	0.50
Zinc (Zn)	46,000	ND	ND	ND	ND	ND	ND



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III. <u>EN 71-3:2019+A1:2021</u>

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).

Element	Migration limit (mg/kg)	Result (mg/kg)					
	(mg/kg)	Sample					
		25	26	27	28	29	30
Aluminium (Al)	28130	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	0.321	ND	ND	0.052	ND	0.053
Chromium (III)	460	0.321	BL	BL	0.052	BL	0.053
Chromium (VI)	0.053	ND	BL	BL	ND	BL	ND
Cobalt (Co)	130	ND	ND	ND	ND	ND	ND
Copper (Cu)	7,700	ND	ND	ND	ND	ND	ND
Lead (Pb)	23	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	0.2	ND	ND	ND	ND
Organic tin [#]	12	ND	0.53	ND	ND	ND	ND
Zinc (Zn)	46,000	ND	ND	ND	ND	ND	ND



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III. <u>EN 71-3:2019+A1:2021</u>

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).

Element	Migration limit			Result (mg/kg)			
	(mg/kg)			San	nple		
		31	32	33	34	35	36
Aluminium (Al)	28130	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	0.208
Chromium (III)	460	BL	BL	BL	BL	BL	0.208
Chromium (VI)	0.053	BL	BL	BL	BL	BL	ND
Cobalt (Co)	130	ND	ND	ND	ND	ND	ND
Copper (Cu)	7,700	ND	ND	ND	ND	ND	ND
Lead (Pb)	23	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 [#]	12	ND	ND	ND	ND	ND	ND
Zinc (Zn)	46,000	ND	ND	ND	ND	ND	ND



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III. <u>EN 71-3:2019+A1:2021</u>

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	Result (mg/kg)					
Diement	(mg/kg)			Sample			
		37	38	39	40	41	
Aluminium (Al)	28130	ND	ND	ND	ND	6	
Antimony (Sb)	560	ND	ND	ND	ND	ND	
Arsenic (As)	47	ND	ND	ND	ND	ND	
Barium (Ba)	18,750	ND	ND	ND	ND	ND	
Boron (B)	15,000	ND	ND	ND	ND	ND	
Cadmium (Cd)	17	ND	ND	ND	ND	0.060	
Chromium (III)	460	BL	BL	BL	BL	0.060	
Chromium (VI)	0.053	BL	BL	BL	BL	ND	
Cobalt (Co)	130	ND	ND	ND	ND	ND	
Copper (Cu)	7,700	ND	ND	ND	ND	ND	
Lead (Pb)	23	ND	ND	ND	ND	ND	
Manganese (Mn)	15,000	ND	ND	ND	ND	8	
Mercury (Hg)	94	ND	ND	ND	ND	ND	
Nickel (Ni)	930	ND	ND	ND	ND	ND	
Selenium (Se)	460	ND	ND	ND	ND	ND	
Strontium (Sr)	56,000	ND	ND	ND	ND	41	
Tin (Sn)	180,000	ND	ND	ND	ND	ND	
Organic tin [#]	12	ND	ND	ND	ND	ND	
Zinc (Zn)	46,000	ND	ND	ND	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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For specification with upper limit, compliance is deemed to occur if the measured result is under the limit, even extended upwards by the expanded uncertainty with 95% coverage probability

III. <u>EN 71-3:2019+A1:2021</u>*

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)
- "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	Basic parts: red ABS	≥100 mg
2	Basic parts: blue ABS	≥100 mg
3	Basic parts: yellow ABS	≥100 mg
4	Basic parts: green ABS	≥100 mg
5	Basic parts: pink ABS	≥100 mg
6	Basic parts: sky blue ABS	≥100 mg
7	Basic parts: orange ABS	≥100 mg
8	Basic parts: lime ABS	≥100 mg
9	Basic parts & Center of Middle Size Wheel: white ABS	≥100 mg
10	Basic parts: black ABS	≥100 mg
11	Basic parts: brown ABS	≥100 mg
12	Basic parts: grey ABS	≥100 mg
13	Basic parts: lavender ABS	≥100 mg
14	Basic parts & Pax & Cross part: red POM	≥100 mg
15	Basic parts & Pax: blue POM	≥100 mg
16	Basic parts & Pax & Cross part: yellow POM	≥100 mg
17	Basic parts & Pax: green POM	≥100 mg
18	Basic parts: pink POM	≥100 mg
19	Basic parts: sky blue POM	≥100 mg
20	Basic parts: orange POM	≥100 mg
21	Basic parts: Lime POM	≥100 mg
22	Basic parts & Cross part & Center of Mini Wheel: white POM	≥100 mg
23	Basic parts & Shaft & Long Shaft & Mini Shaft & Ball Joint A and	≥100 mg
	B & Cross part: black POM	
24	Basic parts: brown POM	≥100 mg



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III. <u>EN 71-3:2019+A1:2021</u>*

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)

Organic tin compounds under investigation are limited to methyltin,

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
25	Basic parts & Wheel & Parts remover: grey POM	≥100 mg
26	Basic parts: lavender POM	≥100 mg
27	Clear parts: transparent PMMA	≥100 mg
28	Clear parts: transparent red PMMA	≥100 mg
29	Clear parts: transparent blue PMMA	≥100 mg
30	Clear parts: transparent yellow PMMA	≥100 mg
31	Clear parts: transparent PC	≥100 mg
32	Clear parts: transparent red PC	≥100 mg
33	Clear parts: transparent blue PC	≥100 mg
34	Clear parts: transparent yellow PC	≥100 mg
35	Tire of middle size wheel & tire of mini wheel: black PE	≥100 mg
36	Blister case: blue PET	≥100 mg
37	Blister case: pink PET	≥100 mg
38	Large plastic container/small plastic container: translucent PP	≥100 mg
39	Cover of large plastic container/cover of small plastic container: translucent blue PP	≥100 mg
40	Lock of large plastic container/lock of small plastic container: white PP	≥100 mg
41	Instruction sheet: white paper with red/blue/green/black multicolor coating	≥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	
1,2,3	<5
4,5,6	<5
7,8,9	<5
10,11,12	<5
13,14,15	<5
16,17,18	<5
19,20,21	<5
22,23,24	<5
25,26,27	<5
28,29,30	<5
31,32,33	<5
34,35,36	<5
37,38	<5
39,40	<5
41	<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.
- For specification with upper limit, compliance is deemed to occur if the measured result is under the limit, even extended upwards by the expanded uncertainty with 95% coverage probability.



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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
1	Basic parts: red ABS
2	Basic parts: blue ABS
3	Basic parts: yellow ABS
4	Basic parts: green ABS
5	Basic parts: pink ABS
6	Basic parts: sky blue ABS
7	Basic parts: orange ABS
8	Basic parts: lime ABS
9	Basic parts & Center of Middle Size Wheel: white ABS
10	Basic parts: black ABS
11	Basic parts: brown ABS
12	Basic parts: grey ABS
13	Basic parts: lavender ABS
14	Basic parts & Pax & Cross part: red POM
15	Basic parts & Pax: blue POM
16	Basic parts & Pax & Cross part: yellow POM
17	Basic parts & Pax: green POM
18	Basic parts: pink POM
19	Basic parts: sky blue POM
20	Basic parts: orange POM
21	Basic parts: Lime POM
22	Basic parts & Cross part & Center of Mini Wheel: white POM
23	Basic parts & Shaft & Long Shaft & Mini Shaft & Ball Joint A and B & Cross part: black POM
24	Basic parts: brown POM
25	Basic parts & Wheel & Parts remover: grey POM
26	Basic parts: lavender POM
27	Clear parts: transparent PMMA
28	Clear parts: transparent red PMMA
29	Clear parts: transparent blue PMMA
30	Clear parts: transparent yellow PMMA
31	Clear parts: transparent PC
32	Clear parts: transparent red PC



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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 blue PC
34	Clear parts: transparent yellow PC
35	Tire of middle size wheel & tire of mini wheel: black PE
36	Blister case: blue PET
37	Blister case: pink PET
38	Large plastic container/small plastic container: translucent PP
39	Cover of large plastic container/cover of small plastic container: translucent blue PP
40	Lock of large plastic container/lock of small plastic container: white PP
41	Instruction sheet: red/blue/green/black multicolour coating

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
1,2,3	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
4,5,6	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
7,8,9	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
10,11,12	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
13,14,15	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
16,17,18	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
19,20,21	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
22,23,24	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
25,26,27	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
28,29,30	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Limit	Individually or in any combination of the The cumulative total of DNOP, DINP and				OP, DINP and		
	DBP, BBP DEHP and DIBP shall not be DIDP shall not be greater than 0.1% by			nan 0.1% by			
	equal to or greater than 0.1% by mass of			mass of	the plasticised i	material.	
	the plasticised material.						



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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
31,32,33	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
34,35,36	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
37,38,39	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
40	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Limit	Individually or in any combination of the				The cumulati	ve total of DNO	OP, DINP and
	DBP, BBP DEHP and DIBP shall not be DIDP shall not be greater that				nan 0.1% by		
	equal to or greater than 0.1% by mass of				mass of	the plasticised	material.
	the plasticised material.					-	

Remark:

- DBP =Di-n-butyl phthalate - BBP =Benzyl-n-butyl phthalate - DEHP = Di (2-ethylhexyl) phthalate = Diisobutyl phthalate - DIBP
- DNOP = Di-n-octyl phthalate - DINP = Diisononyl phthalate = Diisodecyl phthalate - DIDP
- = 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.
- For specification with upper limit, compliance is deemed to occur if the measured result is under the limit, even extended upwards by the expanded uncertainty with 95% coverage probability.

- 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



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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
1	Basic parts: red ABS
2	Basic parts: blue ABS
3	Basic parts: yellow ABS
4	Basic parts: green ABS
5	Basic parts: pink ABS
6	Basic parts: sky blue ABS
7	Basic parts: orange ABS
8	Basic parts: lime ABS
9	Basic parts & Center of Middle Size Wheel: white ABS
10	Basic parts: black ABS
11	Basic parts: brown ABS
12	Basic parts: grey ABS
13	Basic parts: lavender ABS
14	Basic parts & Pax & Cross part: red POM
15	Basic parts & Pax: blue POM
16	Basic parts & Pax & Cross part: yellow POM
17	Basic parts & Pax: green POM
18	Basic parts: pink POM
19	Basic parts: sky blue POM
20	Basic parts: orange POM
21	Basic parts: Lime POM
22	Basic parts & Cross part & Center of Mini Wheel: white POM
23	Basic parts & Shaft & Long Shaft & Mini Shaft & Ball Joint A and B & Cross part:
	black POM
24	Basic parts: brown POM
25	Basic parts & Wheel & Parts remover: grey POM
26	Basic parts: lavender POM
27	Clear parts: transparent PMMA
28	Clear parts: transparent red PMMA
29	Clear parts: transparent blue PMMA
30	Clear parts: transparent yellow PMMA
31	Clear parts: transparent PC
32	Clear parts: transparent red PC
33	Clear parts: transparent blue PC
34	Clear parts: transparent yellow PC



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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
35	Tire of middle size wheel & tire of mini wheel: black PE
36	Blister case: blue PET
37	Blister case: pink PET
38	Large plastic container/small plastic container: translucent PP
39	Cover of large plastic container/cover of small plastic container: translucent blue
	PP
40	Lock of large plastic container/lock of small plastic container: white PP

VI. <u>ASTM F963-17</u>

a. Physical and Mechanical Tests

<u>Applicable</u>	<u>Description</u>	Result
<u>clause</u>		
4.1	Material Quality – Visual Inspection	Pass
4.2	Flammability	Pass
4.3	Toxicology	Pass
4.6	Small Objects	
4.6.3	Toys intended for children > 3 years but < 6 years,	Pass
	16 CFR 1500.19 Small objects labeling requirement	
4.7	Accessible edges	Pass
	16 CFR 1500.49 Sharp metal or glass edges	
4.9	Accessible points	Pass
	16 CFR 1500.48 Sharp points	
4.12	Plastic film	Pass
5	<u>Labeling requirements</u>	
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	Pass
	16 CFR 1500.19	
7	Producer's markings	
7.1	Producer's markings	Pass



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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:

Note: For numerical result with upper[lower] limit, compliance is deemed to occur if the measured result is under[above] the upper[lower] limit, even when

extended upwards [downwards] by the expanded uncertainty with 95%

coverage probability.

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>Description</u>	Result
<u>clause</u> 4.2	Flammability	Pass
	Materials other than textiles (16 CFR 1500.3 (c) (6)	
	(vi)) Test method : Annex A5 (16 CFR 1500 44)	



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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	
1,2,3	<10
4,5,6	<10
7,8,9	<10
10,11,12	<10
13,14,15	<10
16,17,18	<10
19,20,21	<10
22,23,24	<10
25,26,27	<10
28,29,30	<10
31,32,33	<10
34,35,36	<10
37,38	<10
39,40	<10
41	<10

Note:

- All results are in ppm
- \(\left\) denotes less than
- # denotes composite sample. The results for composite sample are calculated based on the component with the least weight.
- For specification with upper limit, compliance is deemed to occur if the measured result is under the limit, even extended upwards by the expanded uncertainty with 95% coverage probability.



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VI. <u>ASTM F963-17</u>*

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

Sample	Description
1	Basic parts: red ABS
2	Basic parts: blue ABS
3	Basic parts: yellow ABS
4	Basic parts: green ABS
5	Basic parts: pink ABS
6	Basic parts: sky blue ABS
7	Basic parts: orange ABS
8	Basic parts: lime ABS
9	Basic parts & Center of Middle Size Wheel: white ABS
10	Basic parts: black ABS
11	Basic parts: brown ABS
12	Basic parts: grey ABS
13	Basic parts: lavender ABS
14	Basic parts & Pax & Cross part: red POM
15	Basic parts & Pax: blue POM
16	Basic parts & Pax & Cross part: yellow POM
17	Basic parts & Pax: green POM
18	Basic parts: pink POM
19	Basic parts: sky blue POM
20	Basic parts: orange POM
21	Basic parts: Lime POM
22	Basic parts & Cross part & Center of Mini Wheel: white POM
23	Basic parts & Shaft & Long Shaft & Mini Shaft & Ball Joint A and B & Cross part: black POM
24	Basic parts: brown POM
25	Basic parts & Wheel & Parts remover: grey POM
26	Basic parts: lavender POM
27	Clear parts: transparent PMMA
28	Clear parts: transparent red PMMA
29	Clear parts: transparent blue PMMA
30	Clear parts: transparent yellow PMMA
31	Clear parts: transparent PC
32	Clear parts: transparent red PC
33	Clear parts: transparent blue PC



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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
34	Clear parts: transparent yellow PC
35	Tire of middle size wheel & tire of mini wheel: black PE
36	Blister case: blue PET
37	Blister case: pink PET
38	Large plastic container/small plastic container: translucent PP
39	Cover of large plastic container/cover of small plastic container: translucent blue PP
40	Lock of large plastic container/lock of small plastic container: white PP
41	Instruction sheet: white paper

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:

- All results are in ppm
- < denotes less than
 # denotes composite sample. The results for composite sample are</pre> calculated based on the component with the least weight.
- For specification with upper limit, compliance is deemed to occur if the measured result is under the limit, even extended upwards by the expanded uncertainty with 95% coverage probability.



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VI. <u>ASTM F963-17</u>*

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: red/blue/green/black multicolor coating

VI. <u>ASTM F963-17</u>

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

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VI. <u>ASTM F963-17</u>

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

				Т.	est			
					em			
	As	Hg	Se	Cd	Sb	Pb	Cr	Ba
Maximum Permissible Level (ppm)	25	60	500	75	60	90	60	1000
Sample								
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
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	8	<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

• For specification with upper limit, compliance is deemed to occur if the measured result is under the limit, even extended upwards by the expanded uncertainty with 95% coverage probability.

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

Sample	Description	Sample weight
1	Basic parts: red ABS	≥100 mg
2	Basic parts: blue ABS	≥100 mg
3	Basic parts: yellow ABS	≥100 mg
4	Basic parts: green ABS	≥100 mg
5	Basic parts: pink ABS	≥100 mg
6	Basic parts: sky blue ABS	≥100 mg
7	Basic parts: orange ABS	≥100 mg
8	Basic parts: lime ABS	≥100 mg
9	Basic parts & Center of Middle Size Wheel: white ABS	≥100 mg
10	Basic parts: black ABS	≥100 mg
11	Basic parts: brown ABS	≥100 mg
12	Basic parts: grey ABS	≥100 mg
13	Basic parts: lavender ABS	≥100 mg
14	Basic parts & Pax & Cross part: red POM	≥100 mg
15	Basic parts & Pax: blue POM	≥100 mg
16	Basic parts & Pax & Cross part: yellow POM	≥100 mg
17	Basic parts & Pax: green POM	≥100 mg
18	Basic parts: pink POM	≥100 mg
19	Basic parts: sky blue POM	≥100 mg
20	Basic parts: orange POM	≥100 mg
21	Basic parts: Lime POM	≥100 mg
22	Basic parts & Cross part & Center of Mini Wheel: white POM	≥100 mg
23	Basic parts & Shaft & Long Shaft & Mini Shaft & Ball Joint A and	≥100 mg
	B & Cross part: black POM	
24	Basic parts: brown POM	≥100 mg



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VI. <u>ASTM F963-17</u>*

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

Sample	Description	Sample weight
25	Basic parts & Wheel & Parts remover: grey POM	≥100 mg
26	Basic parts: lavender POM	≥100 mg
27	Clear parts: transparent PMMA	≥100 mg
28	Clear parts: transparent red PMMA	≥100 mg
29	Clear parts: transparent blue PMMA	≥100 mg
30	Clear parts: transparent yellow PMMA	≥100 mg
31	Clear parts: transparent PC	≥100 mg
32	Clear parts: transparent red PC	≥100 mg
33	Clear parts: transparent blue PC	≥100 mg
34	Clear parts: transparent yellow PC	≥100 mg
35	Tire of middle size wheel & tire of mini wheel: black PE	≥100 mg
36	Blister case: blue PET	≥100 mg
37	Blister case: pink PET	≥100 mg
38	Large plastic container/small plastic container: translucent PP	≥100 mg
39	Cover of large plastic container/cover of small plastic container: translucent blue PP	≥100 mg
40	Lock of large plastic container/lock of small plastic container: white PP	≥100 mg
41	Instruction sheet: white paper	≥100 mg
42	Instruction sheet: red/blue/green/black multicolour coating	≥100 mg



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VII. <u>Children's products containing lead - Total lead content in substrate</u> (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-E1002-08.3

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	
1,2,3	<10
4,5,6	<10
7,8,9	<10
10,11,12	<10
13,14,15	<10
16,17,18	<10
19,20,21	<10
22,23,24	<10
25,26,27	<10
28,29,30	<10
31,32,33	<10
34,35,36	<10
37,38	<10
39,40	<10
41	<10

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.
- For specification with upper limit, compliance is deemed to occur if the measured result is under the limit, even extended upwards by the expanded uncertainty with 95% coverage probability.



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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-E1002-08.3

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

Sample	Description
1	Basic parts: red ABS
2	Basic parts: blue ABS
3	Basic parts: yellow ABS
4	Basic parts: green ABS
5	Basic parts: pink ABS
6	Basic parts: sky blue ABS
7	Basic parts: orange ABS
8	Basic parts: lime ABS
9	Basic parts & Center of Middle Size Wheel: white ABS
10	Basic parts: black ABS
11	Basic parts: brown ABS
12	Basic parts: grey ABS
13	Basic parts: lavender ABS
14	Basic parts & Pax & Cross part: red POM
15	Basic parts & Pax: blue POM
16	Basic parts & Pax & Cross part: yellow POM
17	Basic parts & Pax: green POM
18	Basic parts: pink POM
19	Basic parts: sky blue POM
20	Basic parts: orange POM
21	Basic parts: Lime POM
22	Basic parts & Cross part & Center of Mini Wheel: white POM
23	Basic parts & Shaft & Long Shaft & Mini Shaft & Ball Joint A and B & Cross part: black POM
24	Basic parts: brown POM
25	Basic parts & Wheel & Parts remover: grey POM
26	Basic parts: lavender POM
27	Clear parts: transparent PMMA
28	Clear parts: transparent red PMMA
29	Clear parts: transparent blue PMMA
30	Clear parts: transparent yellow PMMA
31	Clear parts: transparent PC



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No. : HP22100286

VII. <u>Children's products containing lead - Total lead content in substrate</u>*

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-E1002-08.3

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
32	Clear parts: transparent red PC
33	Clear parts: transparent blue PC
34	Clear parts: transparent yellow PC
35	Tire of middle size wheel & tire of mini wheel: black PE
36	Blister case: blue PET
37	Blister case: pink PET
38	Large plastic container/small plastic container: translucent PP
39	Cover of large plastic container/cover of small plastic container: translucent blue PP
40	Lock of large plastic container/lock of small plastic container: white PP
41	Instruction sheet: white paper with red/blue/green/black multicolor coating

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: • 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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• For specification with upper limit, compliance is deemed to occur if the measured result is under the limit, even extended upwards by the expanded uncertainty with 95% coverage probability.

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: red/blue/green/black multicolour coating

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
1,2,3	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
4,5,6	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
7,8,9	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
10,11,12	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
13,14,15	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
16,17,18	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
19,20,21	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
22,23,24	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
25,26,27	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
28,29,30	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
31,32,33	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
34,35,36	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
37,38,39	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
40	< 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 N	Note



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Remark:

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

- %(w/w) =percentage weight per weight

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

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
- For specification with upper limit, compliance is deemed to occur if the measured result is under the limit, even extended upwards by the expanded uncertainty with 95% coverage probability.

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	Basic parts: red ABS
2	Basic parts: blue ABS
3	Basic parts: yellow ABS
4	Basic parts: green ABS
5	Basic parts: pink ABS
6	Basic parts: sky blue ABS
7	Basic parts: orange ABS
8	Basic parts: lime ABS
9	Basic parts & Center of Middle Size Wheel: white ABS
10	Basic parts: black ABS
11	Basic parts: brown ABS
12	Basic parts: grey ABS
13	Basic parts: lavender ABS
14	Basic parts & Pax & Cross part: red 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			
15	Basic parts & Pax: blue POM			
16	Basic parts & Pax & Cross part: yellow POM			
17	Basic parts & Pax: green POM			
18	Basic parts: pink POM			
19	Basic parts: sky blue POM			
20	Basic parts: orange POM			
21	Basic parts: Lime POM			
22	Basic parts & Cross part & Center of Mini Wheel: white POM			
23	Basic parts & Shaft & Long Shaft & Mini Shaft & Ball Joint A and B & Cross part: black POM			
24	Basic parts: brown POM			
25	Basic parts & Wheel & Parts remover: grey POM			
26	Basic parts: lavender POM			
27	Clear parts: transparent PMMA			
28	Clear parts: transparent red PMMA			
29	Clear parts: transparent blue PMMA			
30	Clear parts: transparent yellow PMMA			
31	Clear parts: transparent PC			
32	Clear parts: transparent red PC			
33	Clear parts: transparent blue PC			
34	Clear parts: transparent yellow PC			
35	Tire of middle size wheel & tire of mini wheel: black PE			
36	Blister case: blue PET			
37	Blister case: pink PET			
38	Large plastic container/small plastic container: translucent PP			
39	Cover of large plastic container/cover of small plastic container: translucent blue PP			
40	Lock of large plastic container/lock of small plastic container: white PP			



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IX. <u>California Proposition 65: Lead content</u> (in composite condition)

Ref.: Proposition 65 list of chemicals.

Determined by: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

For materials and substrate

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

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.
- For specification with upper limit, compliance is deemed to occur if the measured result is under the limit, even extended upwards by the expanded uncertainty with 95% coverage probability.



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IX. <u>California Proposition 65: Lead content</u>* Ref.: Proposition 65 list of chemicals.

Determined by: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

Sample	Description
1	Basic parts: red ABS
2	Basic parts: blue ABS
3	Basic parts: yellow ABS
4	Basic parts: green ABS
5	Basic parts: pink ABS
6	Basic parts: sky blue ABS
7	Basic parts: orange ABS
8	Basic parts: lime ABS
9	Basic parts & Center of Middle Size Wheel: white ABS
10	Basic parts: black ABS
11	Basic parts: brown ABS
12	Basic parts: grey ABS
13	Basic parts: lavender ABS
14	Basic parts & Pax & Cross part: red POM
15	Basic parts & Pax: blue POM
16	Basic parts & Pax & Cross part: yellow POM
17	Basic parts & Pax: green POM
18	Basic parts: pink POM
19	Basic parts: sky blue POM
20	Basic parts: orange POM
21	Basic parts: Lime POM
22	Basic parts & Cross part & Center of Mini Wheel: white POM
23	Basic parts & Shaft & Long Shaft & Mini Shaft & Ball Joint A and B & Cross part: black
	POM
24	Basic parts: brown POM
25	Basic parts & Wheel & Parts remover: grey POM
26	Basic parts: lavender POM
27	Clear parts: transparent PMMA
28	Clear parts: transparent red PMMA
29	Clear parts: transparent blue PMMA
30	Clear parts: transparent yellow PMMA
31	Clear parts: transparent PC
32	Clear parts: transparent red PC
33	Clear parts: transparent blue PC
34	Clear parts: transparent yellow PC
35	Tire of middle size wheel & tire of mini wheel: black PE



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IX. <u>California Proposition 65: Lead content</u>*

Ref.: Proposition 65 list of chemicals.

Determined by: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

Sample	Description
36	Blister case: blue PET
37	Blister case: pink PET
38	Large plastic container/small plastic container: translucent PP
39	Cover of large plastic container/cover of small plastic container: translucent blue PP
40	Lock of large plastic container/lock of small plastic container: white PP
41	Instruction sheet: white paper with red/blue/green/black multicolor coating

IX. California Proposition 65: Lead content

Ref.: Proposition 65 list of chemicals.

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: • 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.
- For specification with upper limit, compliance is deemed to occur if the measured result is under the limit, even extended upwards by the expanded uncertainty with 95% coverage probability.

IX. California Proposition 65: Lead content*

Ref.: Proposition 65 list of chemicals.

Determined by: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

Sample	Description
1	Instruction sheet: red/blue/green/black multicolour coating



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X. <u>California Proposition 65: Phthalates content</u> (in composite condition)

Ref.: Proposition 65 list of chemicals.

Determined by: Gas Chromatography Mass Spectrometer

Sample No.	Phthalates content, %(w/w)					
	DBP	BBP	DEHP	DNHP	DINP	DIDP
1,2,3	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
4,5,6	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
7,8,9	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
10,11,12	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
13,14,15	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
16,17,18	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
19,20,21	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
22,23,24	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
25,26,27	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
28,29,30	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
31,32,33	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
34,35,36	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
37,38	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
39,40	< 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

Remark:

- Method detection limit = 0.01%(w/w)
- %(w/w) =percentage weight per weigh
- The above limit was quoted from the requirement stated in Alameda Superior Court, BG-07-350969.
- DBP = Di-n-butyl phthalate
 BBP = Benzyl-n-butyl phthalate
 DEHP = Di (2-ethylhexyl) phthalate
 DNHP = Di-n-hexyl phthalate
 DINP = Diisononyl phthalate
- DINP = Diisononyl phthalate
 DIDP = Diisodecyl phthalate
- For specification with upper limit, compliance is deemed to occur if the measured result is under the limit, even extended upwards by the expanded uncertainty with 95% coverage probability.



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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

• For specification with upper limit, compliance is deemed to occur if the measured result is under the limit, even extended upwards by the expanded uncertainty with 95% coverage probability.

X. <u>California Proposition 65: Phthalates content</u>*

Ref.: Proposition 65 list of chemicals.

Determined by: Gas Chromatography Mass Spectrometer

Sample	Description
1	Basic parts: red ABS
2	Basic parts: blue ABS
3	Basic parts: yellow ABS
4	Basic parts: green ABS
5	Basic parts: pink ABS
6	Basic parts: sky blue ABS
7	Basic parts: orange ABS
8	Basic parts: lime ABS
9	Basic parts & Center of Middle Size Wheel: white ABS
10	Basic parts: black ABS
11	Basic parts: brown ABS
12	Basic parts: grey ABS
13	Basic parts: lavender ABS
14	Basic parts & Pax & Cross part: red POM
15	Basic parts & Pax: blue POM
16	Basic parts & Pax & Cross part: yellow POM
17	Basic parts & Pax: green POM
18	Basic parts: pink POM
19	Basic parts: sky blue POM
20	Basic parts: orange POM
21	Basic parts: Lime POM
22	Basic parts & Cross part & Center of Mini Wheel: white POM
23	Basic parts & Shaft & Long Shaft & Mini Shaft & Ball Joint A and B & Cross part: black POM
24	Basic parts: brown POM
25	Basic parts & Wheel & Parts remover: grey POM
26	Basic parts: lavender POM
27	Clear parts: transparent PMMA



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X. <u>California Proposition 65: Phthalates content</u>*

Ref.: Proposition 65 list of chemicals.

Determined by: Gas Chromatography Mass Spectrometer

Sample	Description
28	Clear parts: transparent red PMMA
29	Clear parts: transparent blue PMMA
30	Clear parts: transparent yellow PMMA
31	Clear parts: transparent PC
32	Clear parts: transparent red PC
33	Clear parts: transparent blue PC
34	Clear parts: transparent yellow PC
35	Tire of middle size wheel & tire of mini wheel: black PE
36	Blister case: blue PET
37	Blister case: pink PET
38	Large plastic container/small plastic container: translucent PP
39	Cover of large plastic container/cover of small plastic container: translucent blue PP
40	Lock of large plastic container/lock of small plastic container: white PP

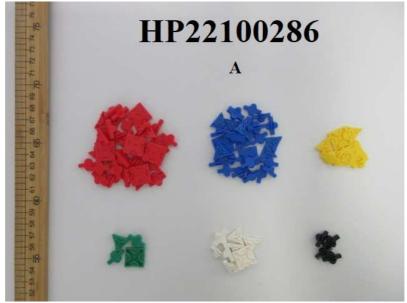
^{* =} All chemical tests results were referred from our Test Report No. HP22060224 issued on 2022-07-06.



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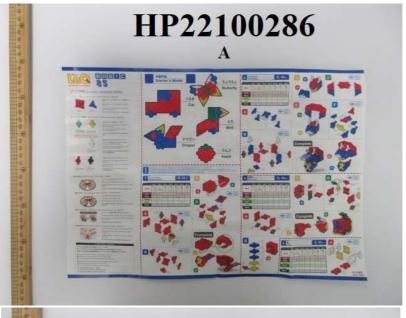
Appendix for Photos of the Submitted Sample







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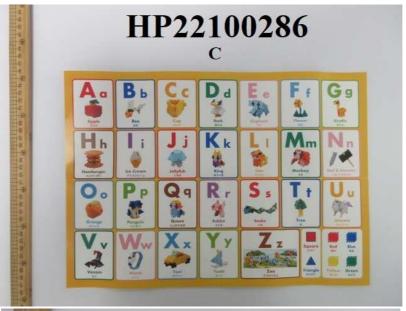






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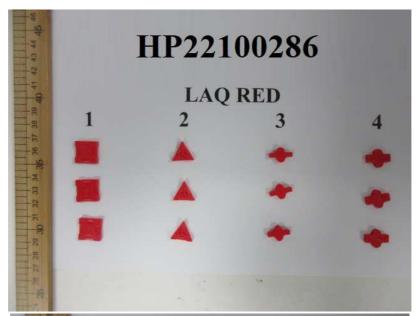
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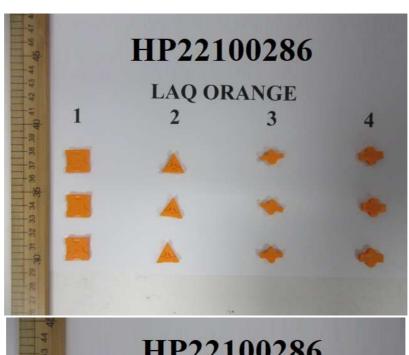
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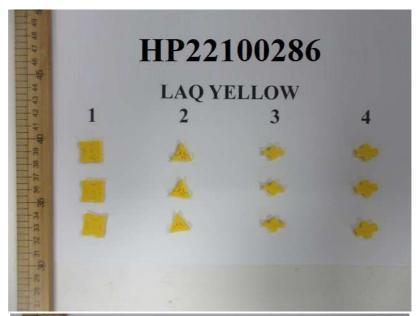
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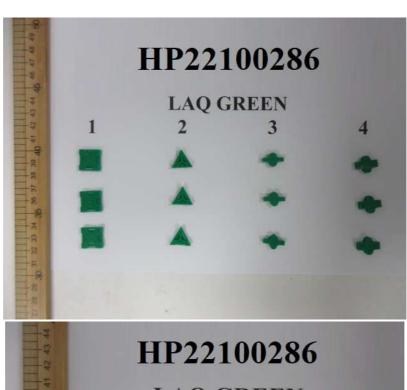
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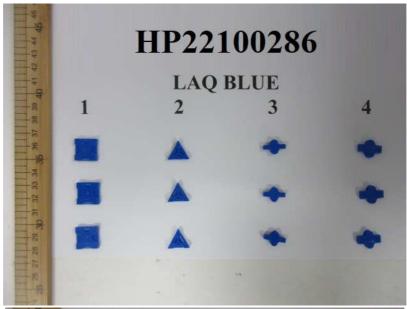
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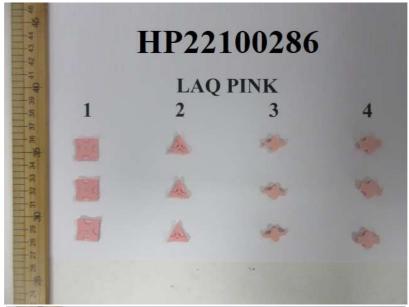
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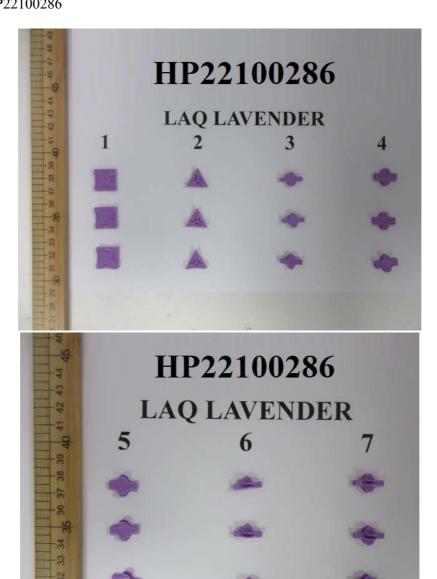
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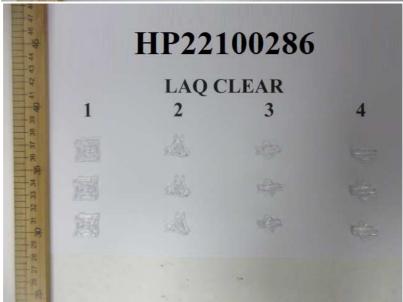
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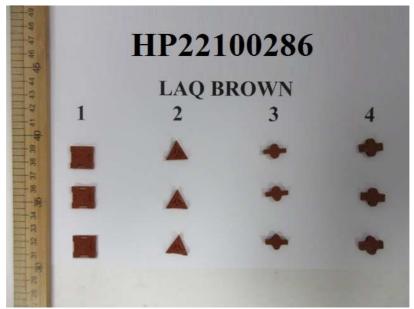
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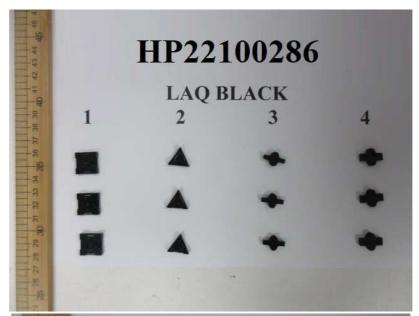
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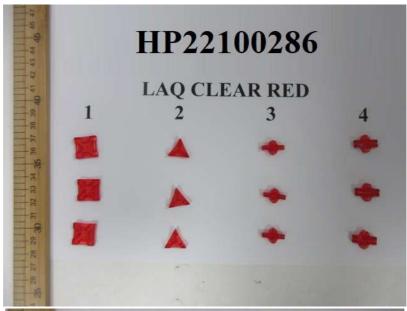
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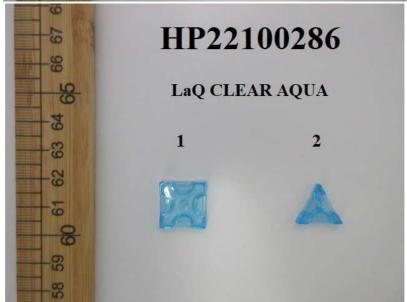




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***** End of Test Report *****

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- 5. The results in Report apply only to the sample as received and do not apply to the bulk, unless the sampling has been carried out by the Company and is stated as such in the Report.
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