



Test Report

Date : 2023-07-19
No. : HP23060839

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Applicant
:

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

Attn: Akie Kawai

Description of Samples :

Two sets of submitted sample said to be :

(A) LaQ Basic 4000

JAN Code: 4952907008084

(B) LaQ Space Series LUNAR EXPLORATION

JAN Code: 4952907008169

(C) LaQ Marine World FLAPJACK OCTOPUS

JAN Code: 4952907008138

(D) LaQ Mystical Beast CERBERUS & HYDRA

JAN Code: 4952907008121

Labelled Age Grading : Item A, B, C: Age 5 years and up

: Item D: 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 : 2023-06-28, 2023-07-13 and 2023-07-14

Date Tested : 2023-06-28 to 2023-07-14

WONG Wing-cheung, Benny
Authorized Signatory



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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
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 BALL JOINT A and B
LaQ CROSS PART RED, YELLOW, WHITE, BLACK
LaQ PAX RED No.1 and No. 2
LaQ PAX YELLOW No.1 and No. 2
LaQ PAX BLUE No.1 and No. 2
LaQ PAX GREEN No.1 and No. 2
LaQ PARTS REMOVER
LaQ BLISTER CASE BLUE
LaQ BLISTER CASE PINK
LaQ PLASTIC CONTAINER (SMALL)
LaQ PLASTIC CONTAINER (LARGE)
LaQ CASE WHITE (SMALL)

WONG Wing-cheung, Benny
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Test Requested	<u>Test Item</u>	<u>Result</u>
:	I. EN71 : Part 1 : 2014 + A1 : 2018 - Physical and Mechanical Properties	Passed
	II. EN71 : Part 2 : 2020 - Flammability test	Passed
	III. EN 71-3:2019+A1:2021 - 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
	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

WONG Wing-cheung, Benny
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	<u>Test Item</u>	<u>Result</u>
Test Requested	: IX. Total lead content in accordance with California Proposition 65.	Passed
	X. Phthalates content in accordance with California Proposition 65.	Passed
Test Result	: Refer to the result pages for details.	

A handwritten signature in black ink, appearing to read 'Wong Wing-cheung'.

WONG Wing-cheung, Benny
Authorized Signatory



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Test Results :

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

<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>	*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 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.

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. EN 71-3:2019+A1:2021

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)	28130	ND	ND	ND	ND	ND	5
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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Category III – Scraped-off toy material

Element	Migration limit (mg/kg)	Result (mg/kg)					
		Sample					
		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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Category III – Scraped-off toy material

Element	Migration limit (mg/kg)	Result (mg/kg)					
		Sample					
		13	14	15	16	17	18
Aluminium (Al)	28130	ND	ND	ND	9	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	0.2	ND	ND
Organic tin [#]	12	ND	ND	ND	0.61	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)	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	9	ND	6	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)	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	0.3	ND
Organic tin [#]	12	ND	ND	ND	ND	0.64	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)	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	0.5	ND	ND
Organic tin [#]	12	ND	ND	ND	1.13	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)	28130	ND	ND	ND	ND	19	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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Category III – Scraped-off toy material

Element	Migration limit (mg/kg)	Result (mg/kg)					
		Sample					
		43	44	45	46	47	48
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	0.2	ND	ND
Organic tin [#]	12	ND	ND	ND	0.58	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					
		49	50	51	52	53	54
Aluminium (Al)	28130	ND	ND	ND	276	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	0.129	0.313	0.158
Chromium (III)	460	BL	BL	BL	0.129	0.313	0.158
Chromium (VI)	0.053	BL	BL	BL	ND	ND	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	13
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	21	11	51
Tin (Sn)	180,000	ND	ND	0.2	ND	ND	ND
Organic tin [#]	12	ND	ND	0.59	ND	ND	ND
Zinc (Zn)	46,000	ND	ND	ND	962	13	ND

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III. EN 71-3:2019+A1:2021

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
		55
Aluminium (Al)	28130	-
Antimony (Sb)	560	-
Arsenic (As)	47	-
Barium (Ba)	18,750	-
Boron (B)	15,000	-
Cadmium (Cd)	17	-
Chromium (III)	460	-
Chromium (VI)	0.053	-
Cobalt (Co)	130	-
Copper (Cu)	7,700	-
Lead (Pb)	23	-
Manganese (Mn)	15,000	-
Mercury (Hg)	94	-
Nickel (Ni)	930	-
Selenium (Se)	460	-
Strontium (Sr)	56,000	-
Tin (Sn)	180,000	-
Organic tin [#]	12	-
Zinc (Zn)	46,000	-

- 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. EN 71-3:2019+A1:2021

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: brown ABS	≥100 mg
10	Basic parts: white ABS	≥100 mg
11	Basic parts: gray ABS	≥100 mg
12	Basic parts: black ABS	≥100 mg
13	Basic parts: lavender ABS	≥100 mg
14	Center of middle size wheel: dull white ABS	≥100 mg
15	Basic parts: red POM	≥100 mg
16	Basic parts: blue POM	≥100 mg
17	Basic parts: yellow POM	≥100 mg
18	Basic parts: green POM	≥100 mg
19	Basic parts: pink POM	≥100 mg
20	Basic parts: sky blue POM	≥100 mg
21	Basic parts: orange POM	≥100 mg
22	Basic parts: lime POM	≥100 mg
23	Basic parts: brown POM	≥100 mg
24	Basic parts: white POM	≥100 mg
25	Basic parts: gray POM	≥100 mg
26	Basic parts: black POM	≥100 mg
27	Basic parts: lavender POM	≥100 mg

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III. EN 71-3:2019+A1:2021

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
28	Wheel: grayish blue POM	≥100 mg
29	Remover: dull gray POM	≥100 mg
30	Shaft/long shaft/mini shaft: dull black POM	≥100 mg
31	Center of mini wheel: dull white POM	≥100 mg
32	Tire of middle size wheel/tire of mini wheel: black PE	≥100 mg
33	Ball joint parts: black POM	≥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 PMMA	≥100 mg
38	Clear parts/basic parts: transparent red PC	≥100 mg
39	Clear parts/basic parts: transparent blue PC	≥100 mg
40	Clear parts/basic parts: transparent yellow PC	≥100 mg
41	Clear parts/basic parts: transparent PC	≥100 mg
42	Cross parts: red POM	≥100 mg
43	Cross parts: black POM	≥100 mg
44	Cross parts: yellow POM	≥100 mg
45	Cross parts: white POM	≥100 mg
46	Blister case: blue PET	≥100 mg
47	Blister case: pink PET	≥100 mg
48	Large container/small container/container: translucent white PP	≥100 mg
49	Handle of large container/handle of small container: dull white PP	≥100 mg
50	Cover of large container/cover of small container: translucent blue PP	≥100 mg
51	Cover of container : white PP	≥100 mg
52	Sticker : transparent plastic laminated on white paper sticker with blue/red/yellow/black printing at the base	≥100 mg
53	Sticker : white paper sticker with blue/yellow/red/black/orange multicolor coating	≥100 mg
54	Instruction sheet : white paper with red/blue/green/black multicolor coating	≥100 mg
55	Coating on white cover : yellow/red coating	<10mg

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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	<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
51	<5
52	<5
53,54	<5
55	<5
56	<5
57	<5
58	<5

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- 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.

- 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: brown ABS
10	Basic parts: white ABS
11	Basic parts: gray ABS
12	Basic parts: black ABS
13	Basic parts: lavender ABS
14	Center of middle size wheel: dull white ABS
15	Basic parts: red POM
16	Basic parts: blue POM
17	Basic parts: yellow POM
18	Basic parts: green POM
19	Basic parts: pink POM
20	Basic parts: sky blue POM
21	Basic parts: orange POM
22	Basic parts: lime POM
23	Basic parts: brown POM
24	Basic parts: white POM
25	Basic parts: gray POM
26	Basic parts: black 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
27	Basic parts: lavender POM
28	Wheel: grayish blue POM
29	Remover: dull gray POM
30	Shaft/long shaft/mini shaft: dull black POM
31	Center of mini wheel: dull white POM
32	Tire of middle size wheel/tire of mini wheel: black PE
33	Ball joint parts: black POM
34	Clear parts: transparent red PMMA
35	Clear parts: transparent blue PMMA
36	Clear parts: transparent yellow PMMA
37	Clear parts: transparent PMMA
38	Clear parts/basic parts: transparent red PC
39	Clear parts/basic parts: transparent blue PC
40	Clear parts/basic parts: transparent yellow PC
41	Clear parts/basic parts: transparent PC
42	Cross parts: red POM
43	Cross parts: black POM
44	Cross parts: yellow POM
45	Cross parts: white POM
46	Blister case: blue PET
47	Blister case: pink PET
48	Large container/small container/container: translucent white PP
49	Handle of large container/handle of small container: dull white PP
50	Cover of large container/cover of small container: translucent blue PP
51	Cover of container : white PP
52	Sticker : transparent plastic laminated on white paper sticker with blue/red/yellow/black printing at the base
53	Instruction sheet : white paper
54	Sticker : white paper sticker
55	Instruction sheet : red/blue/green/black multicolor coating
56	Sticker : blue/yellow/red/black/orange multicolor coating
57	Coating on white cover : yellow coating
58	Coating on white cover : red coating

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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
1,2,3	<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
31,32	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
33,34,35	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
36,37,38	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
39,40,41	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
42,43,44	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
45,46,47	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
48,49,50	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
51	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
52	<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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- 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

- 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: brown ABS
10	Basic parts: white ABS
11	Basic parts: gray ABS
12	Basic parts: black ABS
13	Basic parts: lavender ABS
14	Center of middle size wheel: dull white ABS
15	Basic parts: red POM
16	Basic parts: blue POM
17	Basic parts: yellow POM
18	Basic parts: green POM
19	Basic parts: pink POM
20	Basic parts: sky blue POM
21	Basic parts: orange POM
22	Basic parts: lime 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
23	Basic parts: brown POM
24	Basic parts: white POM
25	Basic parts: gray POM
26	Basic parts: black POM
27	Basic parts: lavender POM
28	Wheel: grayish blue POM
29	Remover: dull gray POM
30	Shaft/long shaft/mini shaft: dull black POM
31	Center of mini wheel: dull white POM
32	Tire of middle size wheel/tire of mini wheel: black PE
33	Ball joint parts: black POM
34	Clear parts: transparent red PMMA
35	Clear parts: transparent blue PMMA
36	Clear parts: transparent yellow PMMA
37	Clear parts: transparent PMMA
38	Clear parts/basic parts: transparent red PC
39	Clear parts/basic parts: transparent blue PC
40	Clear parts/basic parts: transparent yellow PC
41	Clear parts/basic parts: transparent PC
42	Cross parts: red POM
43	Cross parts: black POM
44	Cross parts: yellow POM
45	Cross parts: white POM
46	Blister case: blue PET
47	Blister case: pink PET
48	Large container/small container/container: translucent white PP
49	Handle of large container/handle of small container: dull white PP
50	Cover of large container/cover of small container: translucent blue PP
51	Cover of container : white PP with red/yellow coating
52	Sticker : transparent plastic laminated on white paper sticker with blue/red/yellow/ black printing at the base

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VI. ASTM F963-17

a. Physical and Mechanical Tests

<u>Applicable clause</u>	<u>Description</u>	<u>Result</u>
4.1	Material Quality – Visual Inspection	Pass
4.2	Flammability	Pass
4.3	Toxicology	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>	
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
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:

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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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</u> <u>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	
1,2,3	<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	<10
33,34,35	<10
36,37,38	<10
39,40,41	<10
42,43,44	<10
45,46,47	<10
48,49,50	<10
51	<10
52	<10
53,54	<10

Note :

- All results are in ppm
- \leq 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. 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	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: brown ABS
10	Basic parts: white ABS
11	Basic parts: gray ABS
12	Basic parts: black ABS
13	Basic parts: lavender ABS
14	Center of middle size wheel: dull white ABS
15	Basic parts: red POM
16	Basic parts: blue POM
17	Basic parts: yellow POM
18	Basic parts: green POM
19	Basic parts: pink POM
20	Basic parts: sky blue POM
21	Basic parts: orange POM
22	Basic parts: lime POM
23	Basic parts: brown POM
24	Basic parts: white POM
25	Basic parts: gray POM
26	Basic parts: black POM
27	Basic parts: lavender POM
28	Wheel: grayish blue POM
29	Remover: dull gray POM
30	Shaft/long shaft/mini shaft: dull black POM
31	Center of mini wheel: dull white POM
32	Tire of middle size wheel/tire of mini wheel: black PE
33	Ball joint parts: black POM
34	Clear parts: transparent red PMMA

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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
35	Clear parts: transparent blue PMMA
36	Clear parts: transparent yellow PMMA
37	Clear parts: transparent PMMA
38	Clear parts/basic parts: transparent red PC
39	Clear parts/basic parts: transparent blue PC
40	Clear parts/basic parts: transparent yellow PC
41	Clear parts/basic parts: transparent PC
42	Cross parts: red POM
43	Cross parts: black POM
44	Cross parts: yellow POM
45	Cross parts: white POM
46	Blister case: blue PET
47	Blister case: pink PET
48	Large container/small container/container: translucent white PP
49	Handle of large container/handle of small container: dull white PP
50	Cover of large container/cover of small container: translucent blue PP
51	Cover of container : white PP
52	Sticker : transparent plastic laminated on white paper sticker with blue/red/yellow/black printing at the base
53	Instruction sheet : white paper
54	Sticker : white paper sticker

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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

	Test Item
	Total Lead
Permissible Limit (ppm)	90
Sample	
1	<10
2	<10
3	<10
4	<10

Note :

- All results are in ppm
- \leq 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.

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 : red/blue/green/black multicolor coating
2	Sticker : blue/yellow/red/black/orange multicolor coating
3	Coating on white cover : yellow coating
4	Coating on white cover : red coating

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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

	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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	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
51	<5	<5	<5	<5	<5	<5	<5	<20
52	<5	<5	<5	<5	<5	<5	<5	<20
53	<5	<5	<5	<5	<5	<5	<5	<20
54	<5	<5	<5	<5	<5	<5	<5	<20
55	-	-	-	-	-	-	-	-

- 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

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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.

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	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: brown ABS	≥ 100 mg
10	Basic parts: white ABS	≥ 100 mg
11	Basic parts: gray ABS	≥ 100 mg
12	Basic parts: black ABS	≥ 100 mg
13	Basic parts: lavender ABS	≥ 100 mg
14	Center of middle size wheel: dull white ABS	≥ 100 mg
15	Basic parts: red POM	≥ 100 mg
16	Basic parts: blue POM	≥ 100 mg
17	Basic parts: yellow POM	≥ 100 mg
18	Basic parts: green POM	≥ 100 mg
19	Basic parts: pink POM	≥ 100 mg
20	Basic parts: sky blue POM	≥ 100 mg
21	Basic parts: orange POM	≥ 100 mg
22	Basic parts: lime POM	≥ 100 mg
23	Basic parts: brown POM	≥ 100 mg
24	Basic parts: white POM	≥ 100 mg
25	Basic parts: gray POM	≥ 100 mg
26	Basic parts: black POM	≥ 100 mg
27	Basic parts: lavender POM	≥ 100 mg
28	Wheel: grayish blue POM	≥ 100 mg
29	Remover: dull gray POM	≥ 100 mg
30	Shaft/long shaft/mini shaft: dull black POM	≥ 100 mg

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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	Sample weight
31	Center of mini wheel: dull white POM	≥100 mg
32	Tire of middle size wheel/tire of mini wheel: black PE	≥100 mg
33	Ball joint parts: black POM	≥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 PMMA	≥100 mg
38	Clear parts/basic parts: transparent red PC	≥100 mg
39	Clear parts/basic parts: transparent blue PC	≥100 mg
40	Clear parts/basic parts: transparent yellow PC	≥100 mg
41	Clear parts/basic parts: transparent PC	≥100 mg
42	Cross parts: red POM	≥100 mg
43	Cross parts: black POM	≥100 mg
44	Cross parts: yellow POM	≥100 mg
45	Cross parts: white POM	≥100 mg
46	Blister case: blue PET	≥100 mg
47	Blister case: pink PET	≥100 mg
48	Large container/small container/container: translucent white PP	≥100 mg
49	Handle of large container/handle of small container: dull white PP	≥100 mg
50	Cover of large container/cover of small container: translucent blue PP	≥100 mg
51	Cover of container : white PP	≥100 mg
52	Sticker : transparent plastic laminated on white paper sticker with blue/red/yellow/black printing at the base	≥100 mg
53	Sticker : white paper sticker with blue/yellow/red/black/orange multicolor coating	≥100 mg
54	Instruction sheet : white paper with red/blue/green/black multicolor coating	≥100 mg
55	Coating on white cover : yellow/red coating	<10 mg

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- 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-E1002-08.3
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	<10
33,34,35	<10
36,37,38	<10
39,40,41	<10
42,43,44	<10
45,46,47	<10
48,49,50	<10
51	<10
52	<10
53,54	<10

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- 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.

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 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: brown ABS
10	Basic parts: white ABS
11	Basic parts: gray ABS
12	Basic parts: black ABS
13	Basic parts: lavender ABS
14	Center of middle size wheel: dull white ABS
15	Basic parts: red POM
16	Basic parts: blue POM
17	Basic parts: yellow POM
18	Basic parts: green POM
19	Basic parts: pink POM
20	Basic parts: sky blue POM
21	Basic parts: orange POM
22	Basic parts: lime POM
23	Basic parts: brown POM
24	Basic parts: white 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-E1002-08.3
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
25	Basic parts: gray POM
26	Basic parts: black POM
27	Basic parts: lavender POM
28	Wheel: grayish blue POM
29	Remover: dull gray POM
30	Shaft/long shaft/mini shaft: dull black POM
31	Center of mini wheel: dull white POM
32	Tire of middle size wheel/tire of mini wheel: black PE
33	Ball joint parts: black POM
34	Clear parts: transparent red PMMA
35	Clear parts: transparent blue PMMA
36	Clear parts: transparent yellow PMMA
37	Clear parts: transparent PMMA
38	Clear parts/basic parts: transparent red PC
39	Clear parts/basic parts: transparent blue PC
40	Clear parts/basic parts: transparent yellow PC
41	Clear parts/basic parts: transparent PC
42	Cross parts: red POM
43	Cross parts: black POM
44	Cross parts: yellow POM
45	Cross parts: white POM
46	Blister case: blue PET
47	Blister case: pink PET
48	Large container/small container/container: translucent white PP
49	Handle of large container/handle of small container: dull white PP
50	Cover of large container/cover of small container: translucent blue PP
51	Cover of container : white PP
52	Sticker : transparent plastic laminated on white paper sticker with blue/red/yellow/black printing at the base
53	Instruction sheet : white paper
54	Sticker : white paper sticker

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- 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
2	<10
3	<10
4	<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.

- 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 multicolor coating
2	Sticker : blue/yellow/red/black/orange multicolor coating
3	Coating on white cover : yellow coating
4	Coating on white cover : red 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
1,2,3	<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	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
33,34,35	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
36,37,38	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
39,40,41	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
42,43,44	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
45,46,47	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
48,49,50	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
51	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
52	<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

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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: brown ABS
10	Basic parts: white ABS
11	Basic parts: gray ABS
12	Basic parts: black ABS
13	Basic parts: lavender ABS
14	Center of middle size wheel: dull white ABS
15	Basic parts: red POM
16	Basic parts: blue POM
17	Basic parts: yellow POM
18	Basic parts: green POM
19	Basic parts: pink POM
20	Basic parts: sky blue POM
21	Basic parts: orange POM
22	Basic parts: lime POM
23	Basic parts: brown POM
24	Basic parts: white POM
25	Basic parts: gray 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
26	Basic parts: black POM
27	Basic parts: lavender POM
28	Wheel: grayish blue POM
29	Remover: dull gray POM
30	Shaft/long shaft/mini shaft: dull black POM
31	Center of mini wheel: dull white POM
32	Tire of middle size wheel/tire of mini wheel: black PE
33	Ball joint parts: black POM
34	Clear parts: transparent red PMMA
35	Clear parts: transparent blue PMMA
36	Clear parts: transparent yellow PMMA
37	Clear parts: transparent PMMA
38	Clear parts/basic parts: transparent red PC
39	Clear parts/basic parts: transparent blue PC
40	Clear parts/basic parts: transparent yellow PC
41	Clear parts/basic parts: transparent PC
42	Cross parts: red POM
43	Cross parts: black POM
44	Cross parts: yellow POM
45	Cross parts: white POM
46	Blister case: blue PET
47	Blister case: pink PET
48	Large container/small container/container: translucent white PP
49	Handle of large container/handle of small container: dull white PP
50	Cover of large container/cover of small container: translucent blue PP
51	Cover of container : white PP
52	Sticker : transparent plastic laminated on white paper sticker with blue/red/yellow/black printing at the base

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IX. California Proposition 65: Lead content (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	<10
33,34,35	<10
36,37,38	<10
39,40,41	<10
42,43,44	<10
45,46,47	<10
48,49,50	<10
51	<10
52	<10
53,54	<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. California Proposition 65: Lead content

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: brown ABS
10	Basic parts: white ABS
11	Basic parts: gray ABS
12	Basic parts: black ABS
13	Basic parts: lavender ABS
14	Center of middle size wheel: dull white ABS
15	Basic parts: red POM
16	Basic parts: blue POM
17	Basic parts: yellow POM
18	Basic parts: green POM
19	Basic parts: pink POM
20	Basic parts: sky blue POM
21	Basic parts: orange POM
22	Basic parts: lime POM
23	Basic parts: brown POM
24	Basic parts: white POM
25	Basic parts: gray POM
26	Basic parts: black POM
27	Basic parts: lavender POM
28	Wheel: grayish blue POM
29	Remover: dull gray POM
30	Shaft/long shaft/mini shaft: dull black POM
31	Center of mini wheel: dull white POM
32	Tire of middle size wheel/tire of mini wheel: black PE
33	Ball joint parts: black POM
34	Clear parts: transparent red PMMA
35	Clear parts: transparent blue PMMA
36	Clear parts: transparent yellow PMMA

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IX. California Proposition 65: Lead content

Ref.: Proposition 65 list of chemicals.

Determined by: Inductively Coupled Argon Plasma Atomic Emission Spectrophotometer

Sample	Description
37	Clear parts: transparent PMMA
38	Clear parts/basic parts: transparent red PC
39	Clear parts/basic parts: transparent blue PC
40	Clear parts/basic parts: transparent yellow PC
41	Clear parts/basic parts: transparent PC
42	Cross parts: red POM
43	Cross parts: black POM
44	Cross parts: yellow POM
45	Cross parts: white POM
46	Blister case: blue PET
47	Blister case: pink PET
48	Large container/small container/container: translucent white PP
49	Handle of large container/handle of small container: dull white PP
50	Cover of large container/cover of small container: translucent blue PP
51	Cover of container : white PP
52	Sticker : transparent plastic laminated on white paper sticker with blue/red/yellow/black printing at the base
53	Instruction sheet : white paper
54	Sticker: white paper sticker

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
2	<10
3	<10
4	<10

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- 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 multicolor coating
2	Sticker : blue/yellow/red/black/orange multicolor coating
3	Coating on white cover : yellow coating
4	Coating on white cover : red coating

X. California Proposition 65: Phthalates content (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	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
33,34,35	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
36,37,38	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
39,40,41	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
42,43,44	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
45,46,47	<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

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X. California Proposition 65: Phthalates content (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
48,49,50	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
51	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
52	<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
- 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.

- 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.

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- X. California Proposition 65: Phthalates content
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: brown ABS
10	Basic parts: white ABS
11	Basic parts: gray ABS
12	Basic parts: black ABS
13	Basic parts: lavender ABS
14	Center of middle size wheel: dull white ABS
15	Basic parts: red POM
16	Basic parts: blue POM
17	Basic parts: yellow POM
18	Basic parts: green POM
19	Basic parts: pink POM
20	Basic parts: sky blue POM
21	Basic parts: orange POM
22	Basic parts: lime POM
23	Basic parts: brown POM
24	Basic parts: white POM
25	Basic parts: gray POM
26	Basic parts: black POM
27	Basic parts: lavender POM
28	Wheel: grayish blue POM
29	Remover: dull gray POM
30	Shaft/long shaft/mini shaft: dull black POM
31	Center of mini wheel: dull white POM
32	Tire of middle size wheel/tire of mini wheel: black PE
33	Ball joint parts: black POM
34	Clear parts: transparent red PMMA
35	Clear parts: transparent blue PMMA

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- X. California Proposition 65: Phthalates content
Ref.: Proposition 65 list of chemicals.
Determined by: Gas Chromatography Mass Spectrometer

Sample	Description
36	Clear parts: transparent yellow PMMA
37	Clear parts: transparent PMMA
38	Clear parts/basic parts: transparent red PC
39	Clear parts/basic parts: transparent blue PC
40	Clear parts/basic parts: transparent yellow PC
41	Clear parts/basic parts: transparent PC
42	Cross parts: red POM
43	Cross parts: black POM
44	Cross parts: yellow POM
45	Cross parts: white POM
46	Blister case: blue PET
47	Blister case: pink PET
48	Large container/small container/container: translucent white PP
49	Handle of large container/handle of small container: dull white PP
50	Cover of large container/cover of small container: translucent blue PP
51	Cover of container : white PP
52	Sticker : transparent plastic laminated on white paper sticker with blue/red/yellow/black printing at the base

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Appendix for Photos of the Submitted Sample



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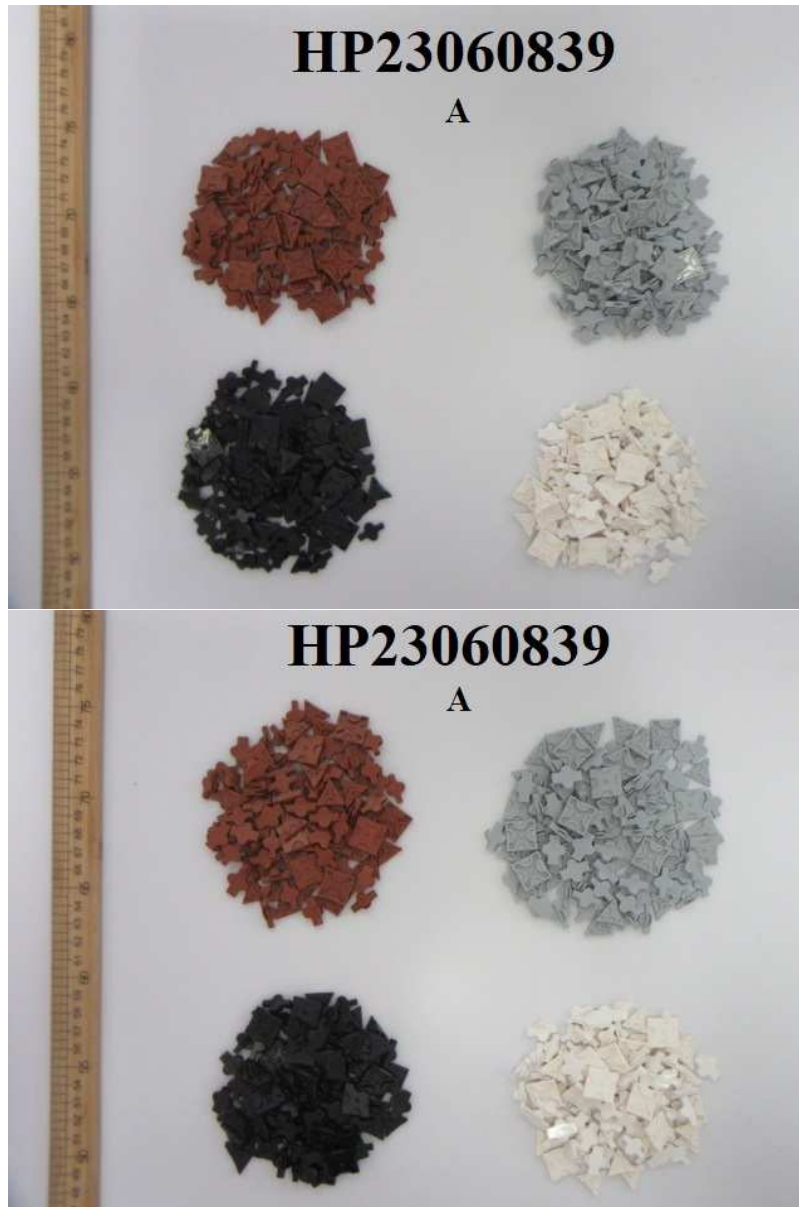
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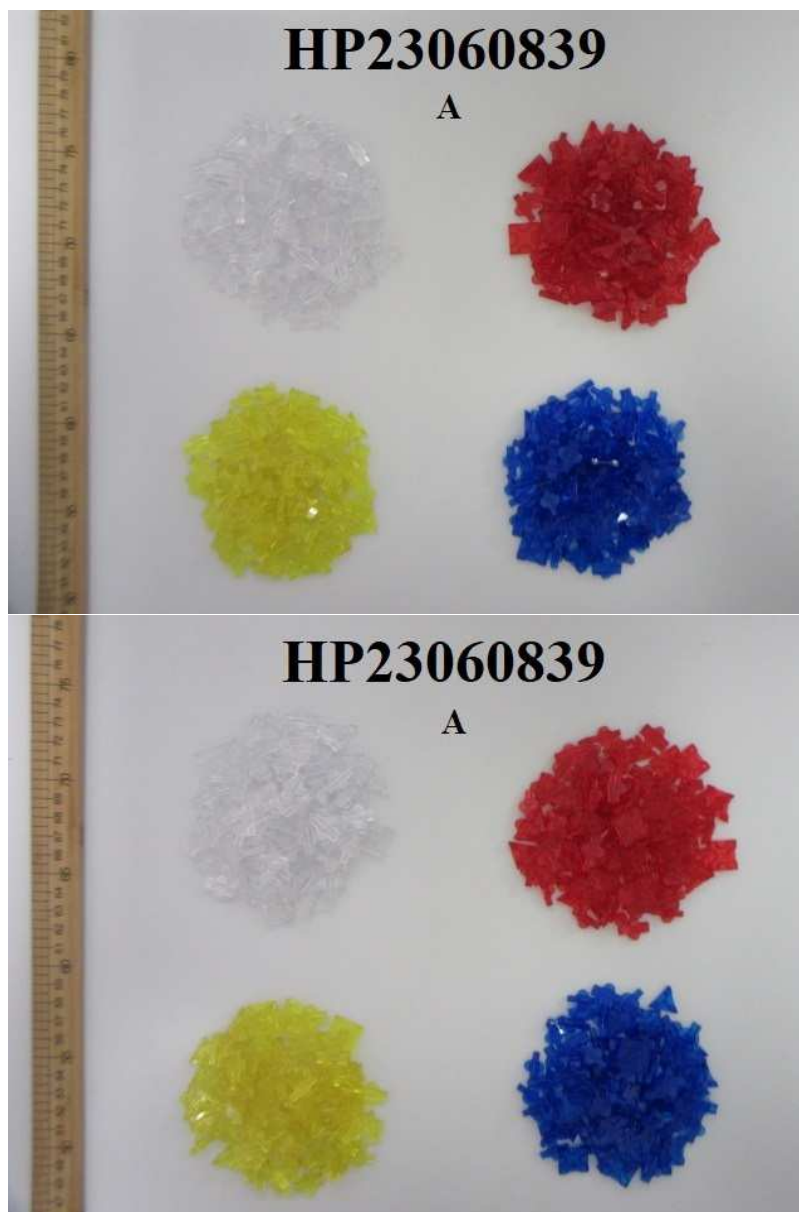
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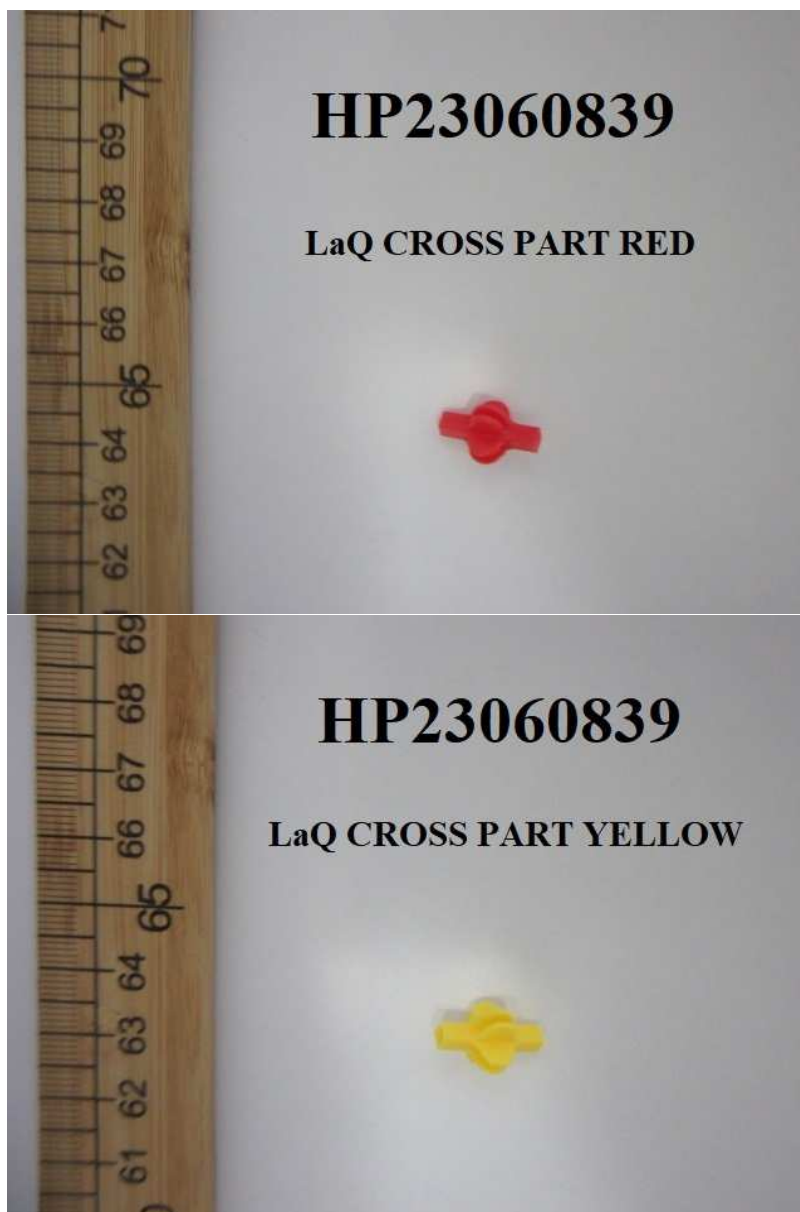


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