



Test Report

Date : 2021-11-02
No. : HP21100397

Page 1 of 37

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

Attn: Mo Ohkubo

Description of Samples : One box of submitted sample(s) said to be :
Name of Parts :
LaQ RED No.1-7
LaQ BLUE No.1-7
LaQ YELLOW No.1-7
LaQ GREEN No.1-7
LaQ PINK No.1-7
LaQ SKY BLUE No.1-7
LaQ ORANGE No.1-7
LaQ LIME No.1-7
LaQ WHITE No.1-7
LaQ BLACK No.1-7
LaQ BROWN No.1-7
LaQ GRAY No.1-7
LaQ LAVENDER No.1-7
LaQ CLEAR No.1-7
LaQ CLEAR RED No.1-7
LaQ CLEAR BLUE No.1-7
LaQ CLEAR YELLOW No.1-7
LaQ HAMACRON CONSTRUCTOR WHEEL
LaQ HAMACRON CONSTRUCTOR SHAFT
LaQ HAMACRON CONTRSUCTOR MIDDLE SIZE WHEEL
LaQ HAMACRON CONSTRUCTOR LONG SHAFT
LaQ HAMACRON CONSTRUCTOR MINI WHEEL
LaQ HAMACRON CONSTRUCTOR MINI SHAFT
LaQ BALL JOINT A and B
LaQ CROSS PART
LaQ PARTS REMOVER
BLISTER CASE BLUE
BLISTER CASE PINK
PLASTIC CONTAINER (SMALL)
PLASTIC CONATINER (LARGE)

WONG Wing-cheung, Benny
Authorized Signatory



The Hong Kong Standards and Testing Centre Limited
10 Dai Wang Street, Tai Po Industrial Estate, Tai Po, N.T., Hong Kong

Tel: +852 2666 1888 Fax: +852 2664 4353 Email: hkstc@hkstc.org Website: www.stc-group.org

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Limited.
For Conditions of Issuance of this test report, please refer to "Conditions of Issuance of Test Reports" section or Website.



Test Report

Date : 2021-11-02
No. : HP21100397

Page 2 of 37

Description of Samples : Item Name
(A) LaQ 2021 BONUS SET
JAN Code: 4952907007490
(B) LaQ SWEET COLLECTION MAGICAL
JAN Code: 4952907007629

Labelled Age Grading : Age 5 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 : 2021-10-19

Date Tested : 2021-10-19 to 2021-10-27

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.	EN71-3:2019+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

WONG Wing-cheung, Benny
Authorized Signatory



Test Report

Date : 2021-11-02
No. : HP21100397

Page 3 of 37

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

Test Result : Refer to the result pages for details.

A handwritten signature in black ink, appearing to read 'Wong Wing-cheung', is written over a horizontal line.

WONG Wing-cheung, Benny
Authorized Signatory

The Hong Kong Standards and Testing Centre Limited
10 Dai Wang Street, Tai Po Industrial Estate, Tai Po, N.T., Hong Kong

Tel: +852 2666 1888 Fax: +852 2664 4353 Email: hkstc@hkstc.org Website: www.stc-group.org

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Limited.
For Conditions of Issuance of this test report, please refer to "Conditions of Issuance of Test Reports" section or Website.



Test Report

Date : 2021-11-02
No. : HP21100397

Page 4 of 37

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.



Test Report

Date : 2021-11-02

Page 5 of 37

No. : HP21100397

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

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
Aluminium (Al)	28130	ND	ND
Antimony (Sb)	560	ND	ND
Arsenic (As)	47	ND	ND
Barium (Ba)	18,750	ND	ND
Boron (B)	15,000	ND	ND
Cadmium (Cd)	17	ND	ND
Chromium (III)	460	BL	BL
Chromium (VI)	0.053	BL	BL
Cobalt (Co)	130	ND	ND
Copper (Cu)	7,700	ND	ND
Lead (Pb)	23	ND	ND
Manganese (Mn)	15,000	ND	ND
Mercury (Hg)	94	ND	ND
Nickel (Ni)	930	ND	ND
Selenium (Se)	460	ND	ND
Strontium (Sr)	56,000	ND	ND
Tin (Sn)	180,000	ND	ND
Organic tin [#]	12	ND	ND
Zinc (Zn)	46,000	27	48

- 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

The Hong Kong Standards and Testing Centre Limited
10 Dai Wang Street, Tai Po Industrial Estate, Tai Po, N.T., Hong Kong

Tel: +852 2666 1888 Fax: +852 2664 4353 Email: hkstc@hkstc.org Website: www.stc-group.org

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Limited.
For Conditions of Issuance of this test report, please refer to "Conditions of Issuance of Test Reports" section or Website.



Test Report

Date : 2021-11-02
No. : HP21100397

Page 6 of 37

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 -Part 3

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	Glow in the dark parts: dull white ABS	≥100 mg
2	Glow in the dark parts: dull white POM	≥100 mg

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

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

For plastic material

	Test item
	Total Cadmium
Maximum permissible level (mg/kg)	100
Sample	
1	<5
2	<5

- 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.

The Hong Kong Standards and Testing Centre Limited
10 Dai Wang Street, Tai Po Industrial Estate, Tai Po, N.T., Hong Kong

Tel: +852 2666 1888 Fax: +852 2664 4353 Email: hkstc@hkstc.org Website: www.stc-group.org

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Limited.
For Conditions of Issuance of this test report, please refer to "Conditions of Issuance of Test Reports" section or Website.



Test Report

Date : 2021-11-02
No. : HP21100397

Page 7 of 37

- 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	Glow in the dark parts: dull white ABS
2	Glow in the dark parts: dull white POM

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

Test Method: Phthalate analysis was determined by Gas Chromatography.

Sample	Phthalates content, %(w/w)						
	DBP	BBP	DEHP	DIBP	DNOP	DINP	DIDP
1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2	<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.
- 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.

The Hong Kong Standards and Testing Centre Limited
10 Dai Wang Street, Taipo Industrial Estate, Tai Po, N.T., Hong Kong

Tel: +852 2666 1888 Fax: +852 2664 4353 Email: hkstc@hkstc.org Website: www.stc-group.org

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Limited.
For Conditions of Issuance of this test report, please refer to "Conditions of Issuance of Test Reports" section or Website.



Test Report

Date : 2021-11-02
No. : HP21100397

Page 8 of 37

- 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	Glow in the dark parts: dull white ABS
2	Glow in the dark parts: dull white POM

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

The Hong Kong Standards and Testing Centre Limited
10 Dai Wang Street, Tai Po Industrial Estate, Tai Po, N.T., Hong Kong

Tel: +852 2666 1888 Fax: +852 2664 4353 Email: hkstc@hkstc.org Website: www.stc-group.org

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Limited.
For Conditions of Issuance of this test report, please refer to "Conditions of Issuance of Test Reports" section or Website.



Test Report

Date : 2021-11-02
No. : HP21100397

Page 9 of 37

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

The Hong Kong Standards and Testing Centre Limited
10 Dai Wang Street, Tai Po Industrial Estate, Tai Po, N.T., Hong Kong

Tel: +852 2666 1888 Fax: +852 2664 4353 Email: hkstc@hkstc.org Website: www.stc-group.org

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Limited.
For Conditions of Issuance of this test report, please refer to "Conditions of Issuance of Test Reports" section or Website.



Test Report

Date : 2021-11-02

Page 10 of 37

No. : HP21100397

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)	100(**)
Sample	
1	<10
2	<10

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

- All results are in ppm
- < denotes less than
- # denotes composite sample. The results for composite sample are calculated based on the component with the least weight.
- 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	Glow in the dark parts: dull white ABS
2	Glow in the dark parts: dull white POM

The Hong Kong Standards and Testing Centre Limited
10 Dai Wang Street, Tai Po Industrial Estate, Tai Po, N.T., Hong Kong

Tel: +852 2666 1888 Fax: +852 2664 4353 Email: hkstc@hkstc.org Website: www.stc-group.org

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Limited.

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



Test Report

Date : 2021-11-02

Page 11 of 37

No. : HP21100397

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

- 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 Spectrophotometer

Sample	Description	Sample weight
1	Glow in the dark parts: dull white ABS	≥100 mg
2	Glow in the dark parts: dull white POM	≥100 mg

The Hong Kong Standards and Testing Centre Limited
10 Dai Wang Street, Tai Po Industrial Estate, Tai Po, N.T., Hong Kong

Tel: +852 2666 1888 Fax: +852 2664 4353 Email: hkstc@hkstc.org Website: www.stc-group.org

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Limited.
For Conditions of Issuance of this test report, please refer to "Conditions of Issuance of Test Reports" section or Website.



Test Report

Date : 2021-11-02
No. : HP21100397

Page 12 of 37

- 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

For materials and substrate

	Test Item
	Total Lead
Permissible Limit (mg/kg)	100(*)
Sample	
1	<10
2	<10

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



Test Report

Date : 2021-11-02
No. : HP21100397

Page 13 of 37

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 No.	Phthalates content, %(w/w)									
	DBP	BBP	DEHP	DINP	DHEXP	DIBP	DPENP	DCHP	DNOP	DIDP
1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Limit	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	See Note	

Remark:

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

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

- 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	Glow in the dark parts: dull white ABS
2	Glow in the dark parts: dull white POM

The Hong Kong Standards and Testing Centre Limited
10 Dai Wang Street, Tai Po Industrial Estate, Tai Po, N.T., Hong Kong

Tel: +852 2666 1888 Fax: +852 2664 4353 Email: hkstc@hkstc.org Website: www.stc-group.org

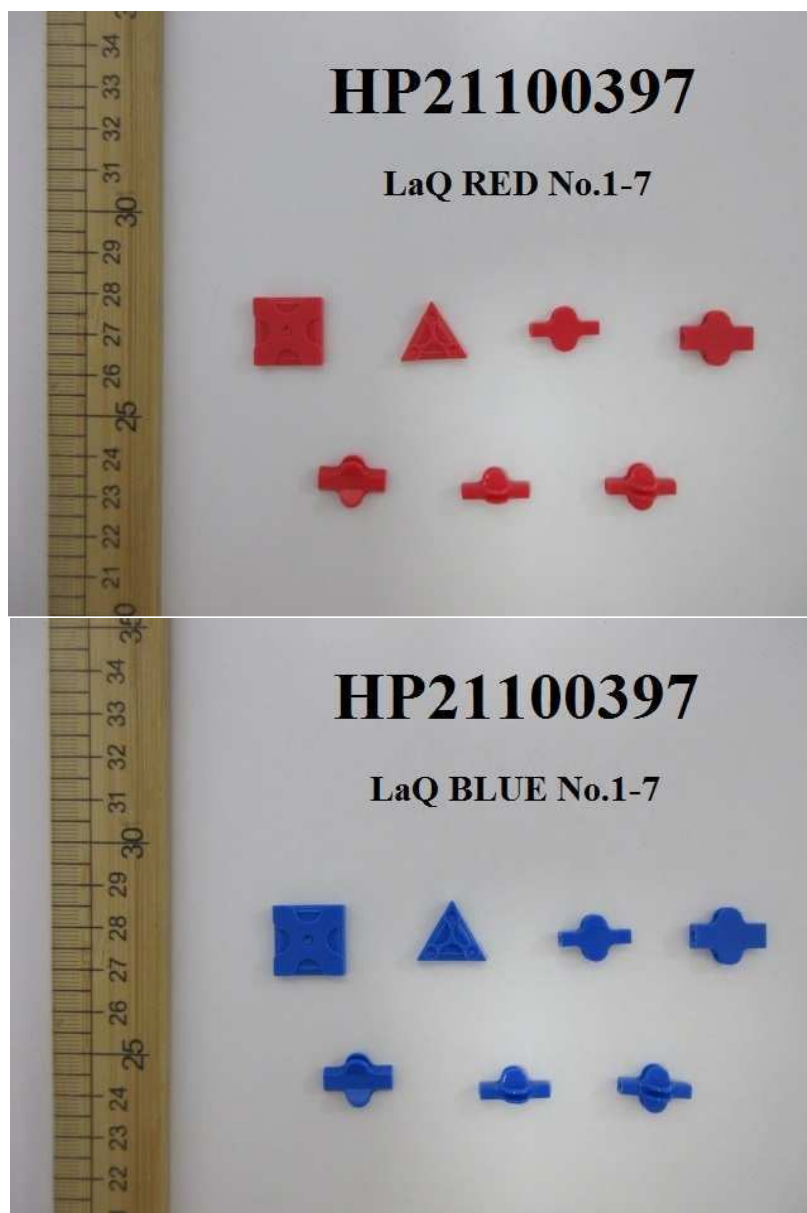
This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Limited.
For Conditions of Issuance of this test report, please refer to "Conditions of Issuance of Test Reports" section or Website.

Test Report

Date : 2021-11-02
No. : HP21100397

Page 14 of 37

Appendix for Photos of the Submitted Sample



The Hong Kong Standards and Testing Centre Limited
10 Dai Wang Street, Tai Po Industrial Estate, Tai Po, N.T., Hong Kong

Tel: +852 2666 1888 Fax: +852 2664 4353 Email: hkstc@hkstc.org Website: www.stc-group.org

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Limited.
For Conditions of Issuance of this test report, please refer to "Conditions of Issuance of Test Reports" section or Website.

Test Report

Date : 2021-11-02
No. : HP21100397

Page 15 of 37



The Hong Kong Standards and Testing Centre Limited
10 Dai Wang Street, Tai Po Industrial Estate, Tai Po, N.T., Hong Kong

Tel: +852 2666 1888 Fax: +852 2664 4353 Email: hkstc@hkstc.org Website: www.stc-group.org

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Limited.
For Conditions of Issuance of this test report, please refer to "Conditions of Issuance of Test Reports" section or Website.

Test Report

Date : 2021-11-02
No. : HP21100397

Page 16 of 37



The Hong Kong Standards and Testing Centre Limited
10 Dai Wang Street, Tai Po Industrial Estate, Tai Po, N.T., Hong Kong

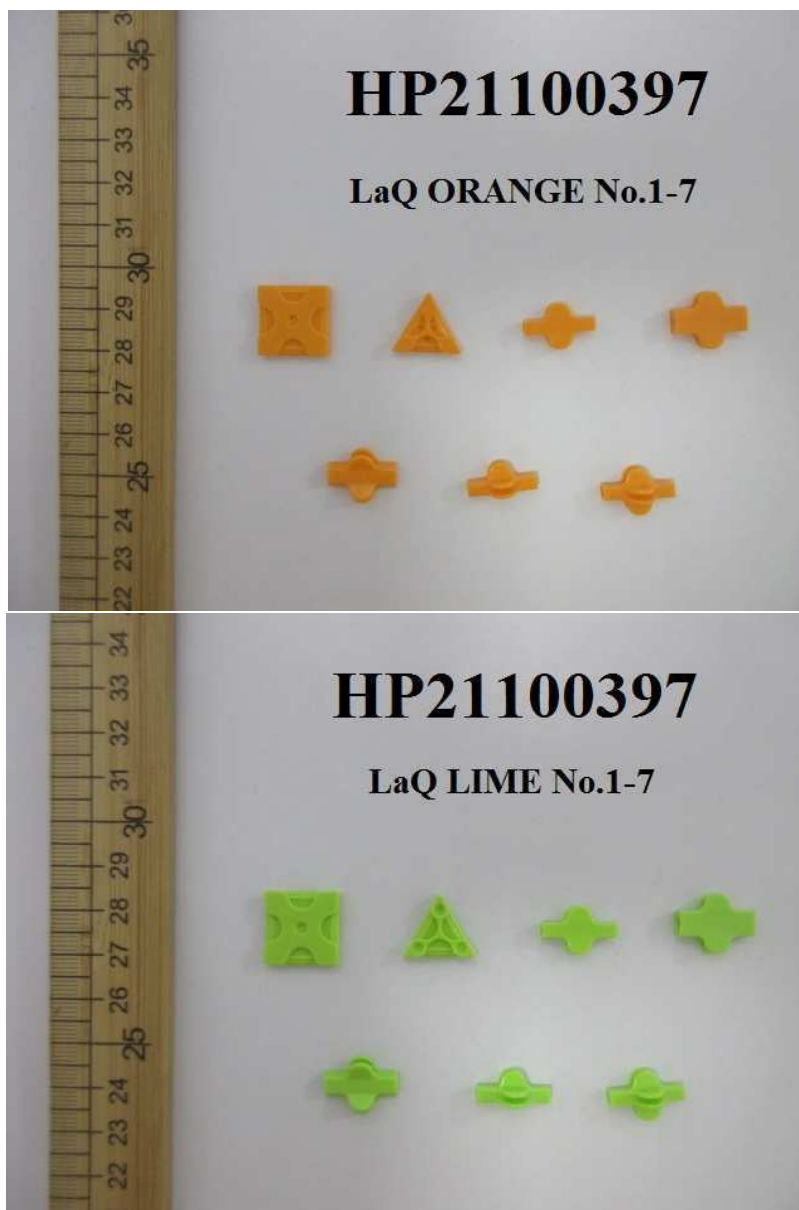
Tel: +852 2666 1888 Fax: +852 2664 4353 Email: hkstc@hkstc.org Website: www.stc-group.org

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Limited.
For Conditions of Issuance of this test report, please refer to "Conditions of Issuance of Test Reports" section or Website.

Test Report

Date : 2021-11-02
No. : HP21100397

Page 17 of 37



Test Report

Date : 2021-11-02
No. : HP21100397

Page 18 of 37



The Hong Kong Standards and Testing Centre Limited
10 Dai Wang Street, Tai Po Industrial Estate, Tai Po, N.T., Hong Kong

Tel: +852 2666 1888 Fax: +852 2664 4353 Email: hkstc@hkstc.org Website: www.stc-group.org

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Limited.
For Conditions of Issuance of this test report, please refer to "Conditions of Issuance of Test Reports" section or Website.

Test Report

Date : 2021-11-02
No. : HP21100397

Page 19 of 37



The Hong Kong Standards and Testing Centre Limited
10 Dai Wang Street, Tai Po Industrial Estate, Tai Po, N.T., Hong Kong

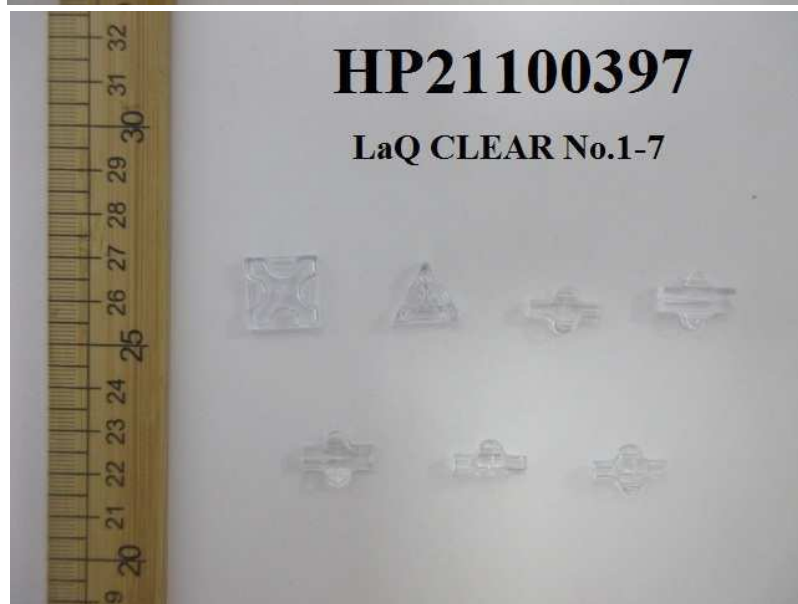
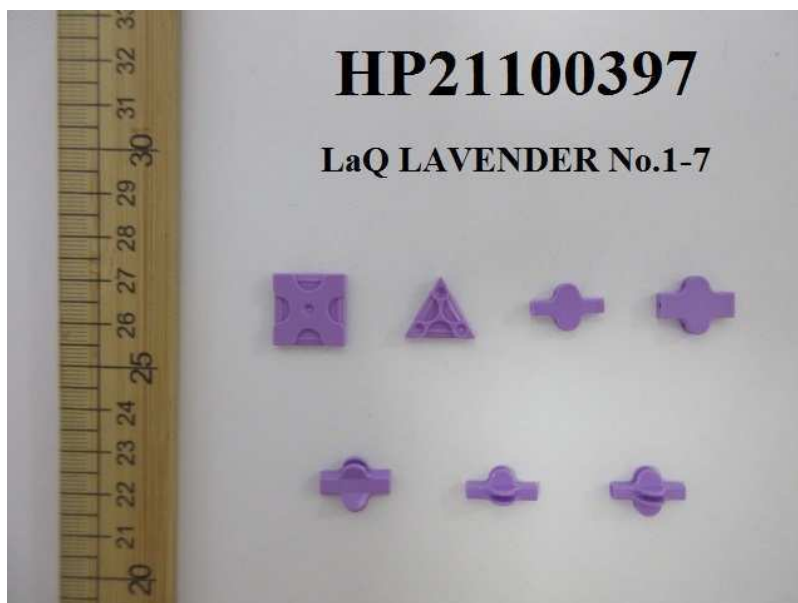
Tel: +852 2666 1888 Fax: +852 2664 4353 Email: hkstc@hkstc.org Website: www.stc-group.org

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Limited.
For Conditions of Issuance of this test report, please refer to "Conditions of Issuance of Test Reports" section or Website.

Test Report

Date : 2021-11-02
No. : HP21100397

Page 20 of 37



The Hong Kong Standards and Testing Centre Limited
10 Dai Wang Street, Tai Po Industrial Estate, Tai Po, N.T., Hong Kong

Tel: +852 2666 1888 Fax: +852 2664 4353 Email: hkstc@hkstc.org Website: www.stc-group.org

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Limited.
For Conditions of Issuance of this test report, please refer to "Conditions of Issuance of Test Reports" section or Website.

Test Report

Date : 2021-11-02
No. : HP21100397

Page 21 of 37



The Hong Kong Standards and Testing Centre Limited
10 Dai Wang Street, Tai Po Industrial Estate, Tai Po, N.T., Hong Kong

Tel: +852 2666 1888 Fax: +852 2664 4353 Email: hkstc@hkstc.org Website: www.stc-group.org

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Limited.
For Conditions of Issuance of this test report, please refer to "Conditions of Issuance of Test Reports" section or Website.

Test Report

Date : 2021-11-02

Page 22 of 37

No. : HP21100397



The Hong Kong Standards and Testing Centre Limited
10 Dai Wang Street, Tai Po Industrial Estate, Tai Po, N.T., Hong Kong

Tel: +852 2666 1888 Fax: +852 2664 4353 Email: hkstc@hkstc.org Website: www.stc-group.org

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Limited.
For Conditions of Issuance of this test report, please refer to "Conditions of Issuance of Test Reports" section or Website.

Test Report

Date : 2021-11-02

Page 23 of 37

No. : HP21100397



Test Report

Date : 2021-11-02

Page 24 of 37

No. : HP21100397

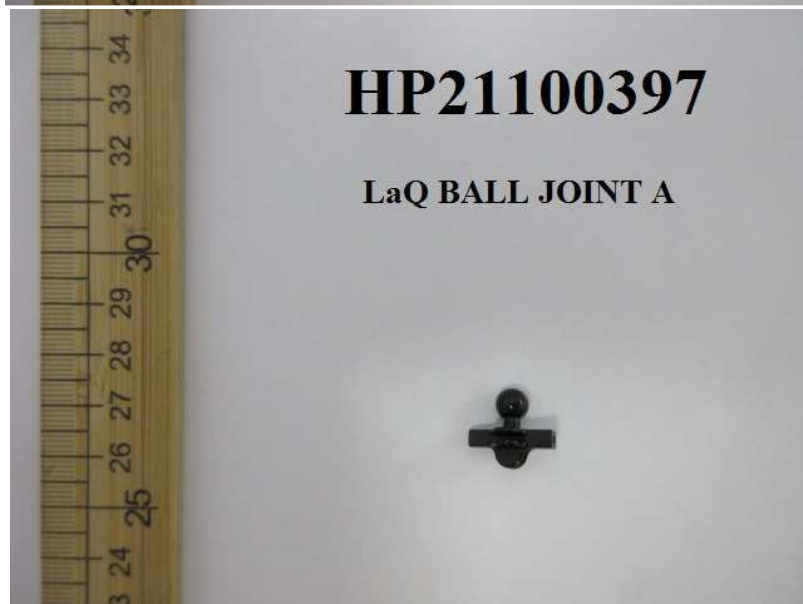


Test Report

Date : 2021-11-02

Page 25 of 37

No. : HP21100397



Test Report

Date : 2021-11-02

Page 26 of 37

No. : HP21100397



The Hong Kong Standards and Testing Centre Limited

10 Dai Wang Street, Tai Po Industrial Estate, Tai Po, N.T., Hong Kong

Tel: +852 2666 1888 Fax: +852 2664 4353

Email: hkstc@hkstc.org

Website: www.stc-group.org

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Limited.

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

Test Report

Date : 2021-11-02
No. : HP21100397

Page 27 of 37



Test Report

Date : 2021-11-02
No. : HP21100397

Page 28 of 37



The Hong Kong Standards and Testing Centre Limited
10 Dai Wang Street, Tai Po Industrial Estate, Tai Po, N.T., Hong Kong

Tel: +852 2666 1888 Fax: +852 2664 4353 Email: hkstc@hkstc.org Website: www.stc-group.org

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Limited.
For Conditions of Issuance of this test report, please refer to "Conditions of Issuance of Test Reports" section or Website.

Test Report

Date : 2021-11-02
No. : HP21100397

Page 29 of 37



The Hong Kong Standards and Testing Centre Limited
10 Dai Wang Street, Tai Po Industrial Estate, Tai Po, N.T., Hong Kong

Tel: +852 2666 1888 Fax: +852 2664 4353 Email: hkstc@hkstc.org Website: www.stc-group.org

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Limited.
For Conditions of Issuance of this test report, please refer to "Conditions of Issuance of Test Reports" section or Website.

Test Report

Date : 2021-11-02
No. : HP21100397

Page 30 of 37



Test Report

Date : 2021-11-02
No. : HP21100397

Page 31 of 37



Test Report

Date : 2021-11-02
No. : HP21100397

Page 32 of 37



The Hong Kong Standards and Testing Centre Limited
10 Dai Wang Street, Tai Po Industrial Estate, Tai Po, N.T., Hong Kong

Tel: +852 2666 1888 Fax: +852 2664 4353 Email: hkstc@hkstc.org Website: www.stc-group.org

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Limited.
For Conditions of Issuance of this test report, please refer to "Conditions of Issuance of Test Reports" section or Website.

Test Report

Date : 2021-11-02
No. : HP21100397

Page 33 of 37



The Hong Kong Standards and Testing Centre Limited
10 Dai Wang Street, Tai Po Industrial Estate, Tai Po, N.T., Hong Kong

Tel: +852 2666 1888 Fax: +852 2664 4353 Email: hkstc@hkstc.org Website: www.stc-group.org

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Limited.
For Conditions of Issuance of this test report, please refer to "Conditions of Issuance of Test Reports" section or Website.

Test Report

Date : 2021-11-02
No. : HP21100397

Page 34 of 37



Test Report

Date : 2021-11-02
No. : HP21100397

Page 35 of 37



Test Report

Date : 2021-11-02
No. : HP21100397

Page 36 of 37



The Hong Kong Standards and Testing Centre Limited
10 Dai Wang Street, Tai Po Industrial Estate, Tai Po, N.T., Hong Kong

Tel: +852 2666 1888 Fax: +852 2664 4353 Email: hkstc@hkstc.org Website: www.stc-group.org

This report shall not be reproduced unless with prior written approval from The Hong Kong Standards and Testing Centre Limited.
For Conditions of Issuance of this test report, please refer to "Conditions of Issuance of Test Reports" section or Website.

Test Report

Date : 2021-11-02
No. : HP21100397

Page 37 of 37



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

Conditions of Issuance of Test Reports

1. All samples and goods are accepted by The Hong Kong Standards & Testing Centre Limited (the “Company”) solely for testing and reporting in accordance with the following terms and conditions. The Company provides its services on the basis that such terms and conditions constitute express agreement between the Company and any person, firm or company requesting its services (the “Clients”).
2. Any report issued by the Company as a result of this application for testing service (the “Report”) shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to his customer, supplier or other persons directly concerned. Subject to clause 3, the Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. The Company shall be at liberty to disclose the testing-related documents and/or files anytime to any third-party accreditation and/or recognition bodies for audit or other related purposes. No liabilities whatsoever shall attach to the Company's act of disclosure.
4. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
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.
6. When a statement of conformity to a specification or standard is provided, the ILAC-G8 Guidance document (and/or IEC Guide 115 in the electrotechnical sector) will be adopted as a decision rule for the determination of conformity unless it is inherent in the requested specification or standard, or otherwise specified in the Report.
7. In the event of the improper use the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
8. Sample submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
9. The Company will not be liable for or accept responsibility for any loss or damage howsoever arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
10. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
11. Subject to the variable length of retention time for test data and report stored hereinto as to otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of this test report for a period of three years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after the retention period. Under no circumstances shall we be liable for damages of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.
12. Issuance records of the Report are available on the internet at www.stc.group. Further enquiry of validity or verification of the Reports should be addressed to the Company.