

# TEST REPORT

Applicant:

Number: HKGH0272469102 S1

Date: May 27, 2021

*This is to supersede Report No. HKGH0272469102 dated May 27, 2021 due to information update*

Submitted sample said to be :  
Item Name : 塑膠玩具  
Reference No. : See Appendix  
Quantity : 5 sets  
Labelled Age Group : Not specified  
Packaging Provided : No  
Country of Origin : China

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For and on behalf of :  
Intertek Testing Services HK Ltd.



Cindy I.K. Chan  
Vice President



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**Conclusion:**

The submitted sample was tested under the following requirements requested by the applicant, subject to the information stated in the remark and attached page(s) for details :

<u>Requirement</u>	<u>Result</u>
(1) EN 71-1:2014 + A1:2018 - Mechanical and physical properties Excluding Clause 7 Warnings, markings and instruction for use	Pass
(2) EN 71-2:2011 + A1:2014 - Flammability Test	Pass
(3) EN 71-2:2020 - Flammability Test	Pass
(4) EN 71-3:2019 - Migration of certain elements	Pass
(5) BS EN 71-1:2014 + A1:2018 / EN 71-1:2014 + A1:2018 - Mechanical and physical properties Excluding Clause 7 Warnings, markings and instruction for use	Pass
(6) BS EN 71-2:2011 + A1:2014 / EN 71-2:2011 + A1:2014 - Flammability Test	Pass
(7) BS EN 71-2:2020 / EN 71-2:2020 - Flammability Test	Pass
(8) BS EN71-3:2019 - Migration of certain elements	Pass
(9) REACH Regulation (EC) No.1907/2006 , Annex XVII Item 23 & amendment No. 2016/217 - Cadmium content requirement	Pass
(10) REACH Regulation (EC) no. 1907/2006, Annex XVII Items 51 & 52, amendment no. 552/2009 & 2018/2005 - Phthalates content	Pass

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<u>Requirement</u>	<u>Result</u>
(11) REACH Regulation (EC) no. 1907/2006 & amendment (EU) no. 1272/2013 Annex XVII Item 50 - Polycyclic aromatic hydrocarbons content	Pass
(12) REACH Regulation (EC) No. 1907/2006, Annex XVII item 20 & amendment (EU) No. 276/2010 - Organotin content requirement	Pass
(13) Regulation (EC) No. 2019/1021 on persistent organic pollutants (POPs) - Short Chain Chlorinated Paraffin (C10 - C13) (SCCP) content	Pass

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Decision Rule(s):

When a statement of conformity to a specification or standard is provided on test report, the decision rule shall be applied. For details, please refer to Intertek's "Decision Rule Document" and is available on Intertek's website. <https://intertekhk.grd.by/decision-rule-doc>.  
If decision rule already inhered in the requested specification or standard, Intertek's "Decision Rule Document" is not applicable and indication of "∞" was shown as above table.

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# TEST REPORT

Number : HKGH0272469102 S1

(1) Mechanical and Physical Test

Test Standard : European Standard on Safety of toys EN 71-1:2014 + A1:2018

Age group for testing : For Ages Over 3 Years

Clause	Requirement	Assessment
4	General requirements	
4.1	Material cleanliness	P
4.2	Assembly	NA
4.3	Flexible plastic sheeting	NA
4.4	Toy bags	NA
4.5	Glass	NA
4.6	Expanding Materials	NA
4.7	Edges	P
4.8	Points and Metallic wires	P
4.9	Protruding parts	NA
4.10	Parts moving against each other	NA
4.11	Mouth actuated toys and other toys intended to be put into mouth	NA
4.12	Balloons	NA
4.13	Cords of toy kites and other flying toys	NA
4.14	Enclosures	NA
4.15	Toys intended to bear the mass of a child	NA
4.16	Heavy immobile toys	NA
4.17	Projectiles	NA
4.18	Aquatic toys and inflatable toys	NA
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	NA
4.20	Acoustics	NA
4.21	Toys containing non -electrical heat source	NA
4.22	Small balls	NA
4.23	Magnets	NA
4.24	Yo-yo balls	NA
4.25	Toys attached to food	NA
4.26	Toy Disguise Costumes	NA
4.27	Flying toys	NA
5	Toys intended for children under 36 months	
5.1	General requirements for toys intended for children under 36 months	NA
5.2	Soft-filled toys and soft-filled parts of a toy	NA
5.3	Plastic sheeting	NA
5.4	Cords, chains and electrical cables in toys	NA
5.5	Liquid filled toys	NA
5.6	Speed limitation of electrically driven ride-on toys	NA
5.7	Glass and porcelain	NA
5.8	Shape and size of certain toys	NA
5.9	Toys comprising monofilament fibres	NA
5.10	Small balls	NA
5.11	Play figures	NA
5.12	Hemispheric-shaped toys	NA
5.13	Suction cups	NA
5.14	Straps intended to be worn fully or partially around the neck	NA
5.15	Sledges with cords for pulling (7.24)	NA
6	Packaging	NA



# TEST REPORT

Number : HKGH0272469102 S1

Clause	Requirement	Assessment
7	Warnings, markings and instructions for use	#1

Abbreviation : P = Pass NA = Not Applicable

Remark(s):

#1 = Clause 7 - As requested by applicant, the labelling requirement was not assessed.

Date sample received : May 11, 2021

Test Period : May 11, 2021 to May 17, 2021

## (2) Flammability Test

Test Standard : European Standard on Safety of Toys EN 71-2:2011 + A1:2014

Clause	Requirement	Assessment
4.1	General	P
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended to be worn by a child in play	NA
4.4	Toys intended to be entered by a child	NA
4.5	Soft filled toys	NA

Abbreviation : P = Pass NA = Not Applicable

Date sample received : May 11, 2021

Test Period : May 11, 2021 to May 17, 2021

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# TEST REPORT

Number : HKGH0272469102 S1

(3) Flammability Test

Test Standard : European Standard on Safety of Toys EN 71-2:2020

Clause	Requirement	Assessment
4.1	General requirements	P
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended to be worn by a child in play	NA
4.4	Toys intended to be entered by a child	NA
4.5	Soft filled toys	NA

Abbreviation : P = Pass NA = Not Applicable

Date sample received : May 11, 2021

Test Period : May 11, 2021 to May 17, 2021

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# TEST REPORT

Number : HKGH0272469102 S1

(4) 19 Toxic Element Migration Test

Test Method : EN 71-3:2019. Acid extraction method was used and toxic elements content were determined by Inductively Coupled Argon Plasma Spectrometry and Ion Chromatography- Inductively Coupled Plasma-Mass Spectrometry and/or Gas Chromatographic - Mass Spectrometry

Category (III): Scraped-off toy material:

	Result (mg/kg)			Limit (mg/kg)
	(1)	(2)	(3)	
Soluble Aluminium (Al)	<300	<300	<300	28130
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	23
Soluble Manganese (Mn)	<10	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	<10	<10	<10	930
Soluble Selenium (Se)	<10	<10	<10	460
Soluble Strontium (Sr)	<100	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
Soluble Organic tin ++	<2.0	<2.0	<2.0	12
Soluble Zinc (Zn)	<100	<100	<100	46000

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Number : HKGH0272469102 S1

	Result (mg/kg)			Limit (mg/kg)
	(4)	(5)	(6)	
Soluble Aluminium (Al)	<300	<300	<300	28130
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	23
Soluble Manganese (Mn)	<10	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	<10	<10	<10	930
Soluble Selenium (Se)	<10	<10	<10	460
Soluble Strontium (Sr)	<100	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
Soluble Organic tin ++	<2.0	<2.0	<2.0	12
Soluble Zinc (Zn)	<100	<100	<100	46000

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# TEST REPORT

Number : HKGH0272469102 S1

	Result (mg/kg)			Limit (mg/kg)
	(7)	(8)	(9)	
Soluble Aluminium (Al)	<300	<300	<300	28130
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	23
Soluble Manganese (Mn)	<10	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	<10	<10	<10	930
Soluble Selenium (Se)	<10	<10	<10	460
Soluble Strontium (Sr)	<100	<100	<100	56000
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Soluble Organic tin ++	<2.0	<2.0	<2.0	12
Soluble Zinc (Zn)	<100	<100	<100	46000

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Number : HKGH0272469102 S1

	Result (mg/kg)		Limit (mg/kg)
	(10)	(11)	
Soluble Aluminium (Al)	<300	<300	28130
Soluble Antimony (Sb)	<10	<10	560
Soluble Arsenic (As)	<10	<10	47
Soluble Barium (Ba)	<10	<10	18750
Soluble Boron (B)	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	130
Soluble Copper (Cu)	<10	<10	7700
Soluble Lead (Pb)	<10	<10	23
Soluble Manganese (Mn)	<10	<10	15000
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Soluble Selenium (Se)	<10	<10	460
Soluble Strontium (Sr)	<100	<100	56000
Soluble Tin (Sn)	<10	<10	180000
Soluble Organic tin ++	<2.0	<2.0	12
Soluble Zinc (Zn)	<100	<100	46000

mg/kg = milligram per kilogram

++ : Unless the test result was marked with "Δ", Organic tin content was not directly determined and was derived from migration result of total tin.

Organic tin test result was expressed as tributyl tin.

Chromium (III) value was calculated as difference between migration results of total Chromium and Chromium (VI) .

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# TEST REPORT

Number : HKGH0272469102 S1

Tested Components:

- (1) Yellow coating on plastic (all figures).
- (2) Black coating on plastic (all figures).
- (3) White coating on plastic (all figures).
- (4) Blue coating on plastic (all figures).
- (5) Red coating on plastic (all figures).
- (6) Orange plastic (all figures).
- (7) Grey plastic (all figures).
- (8) Brown plastic (all figures).
- (9) White plastic (all figures).
- (10) Yellow plastic (all figures).
- (11) Bright white plastic excluding coatings (all figures).

Date sample received : May 11, 2021  
 Test Period : May 11, 2021 to May 25, 2021

(5) Mechanical and Physical Test

Test Standard : Standard on Safety of toys BS EN 71-1:2014 + A1:2018 / EN 71-1:2014 + A1:2018

Age group for testing : For Ages Over 3 Years

Clause	Requirement	Assessment
4	General requirements	
4.1	Material cleanliness	P
4.2	Assembly	NA
4.3	Flexible plastic sheeting	NA
4.4	Toy bags	NA
4.5	Glass	NA
4.6	Expanding Materials	NA
4.7	Edges	P
4.8	Points and Metallic wires	P
4.9	Protruding parts	NA
4.10	Parts moving against each other	NA
4.11	Mouth actuated toys and other toys intended to be put into mouth	NA
4.12	Balloons	NA
4.13	Cords of toy kites and other flying toys	NA
4.14	Enclosures	NA
4.15	Toys intended to bear the mass of a child	NA
4.16	Heavy immobile toys	NA
4.17	Projectiles	NA
4.18	Aquatic toys and inflatable toys	NA
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	NA



# TEST REPORT

Number : HKGH0272469102 S1

Clause	Requirement	Assessment
4.20	Acoustics	NA
4.21	Toys containing non -electrical heat source	NA
4.22	Small balls	NA
4.23	Magnets	NA
4.24	Yo-yo balls	NA
4.25	Toys attached to food	NA
4.26	Toy Disguise Costumes	NA
4.27	Flying toys	NA
5	Toys intended for children under 36 months	
5.1	General requirements for toys intended for children under 36 months	NA
5.2	Soft-filled toys and soft-filled parts of a toy	NA
5.3	Plastic sheeting	NA
5.4	Cords, chains and electrical cables in toys	NA
5.5	Liquid filled toys	NA
5.6	Speed limitation of electrically driven ride-on toys	NA
5.7	Glass and porcelain	NA
5.8	Shape and size of certain toys	NA
5.9	Toys comprising monofilament fibres	NA
5.10	Small balls	NA
5.11	Play figures	NA
5.12	Hemispheric-shaped toys	NA
5.13	Suction cups	NA
5.14	Straps intended to be worn fully or partially around the neck	NA
5.15	Sledges with cords for pulling (7.24)	NA
6	Packaging	NA
7	Warnings, markings and instructions for use	#1

Abbreviation : P = Pass NA = Not Applicable

Remark(s):

#1 = Clause 7 - As requested by applicant, the labelling requirement was not assessed.

Date sample received : May 11, 2021

Test Period : May 11, 2021 to May 17, 2021

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# TEST REPORT

Number : HKGH0272469102 S1

(6) Flammability Test

Test Standard : Standard on Safety of Toys BS EN 71-2:2011 + A1:2014 / EN 71-2:2011 + A1:2014

Clause	Requirement	Assessment
4.1	General	P
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended to be worn by a child in play	NA
4.4	Toys intended to be entered by a child	NA
4.5	Soft filled toys	NA

Abbreviation : P = Pass NA = Not Applicable

Date sample received : May 11, 2021  
Test Period : May 11, 2021 to May 17, 2021

(7) Flammability Test

Test Standard : Standard on Safety of Toys BS EN 71-2:2020 / EN 71-2:2020

Clause	Requirement	Assessment
4.1	General requirements	P
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended to be worn by a child in play	NA
4.4	Toys intended to be entered by a child	NA
4.5	Soft filled toys	NA

Abbreviation : P = Pass NA = Not Applicable

Date sample received : May 11, 2021  
Test Period : May 11, 2021 to May 17, 2021

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# TEST REPORT

Number : HKGH0272469102 S1

(8) 19 Toxic Element Migration Test

Test Method : BS EN71-3:2019. Acid extraction method was used and toxic elements content were determined by Inductively Coupled Argon Plasma Spectrometry and Ion Chromatography- Inductively Coupled Plasma-Mass Spectrometry and/or Gas Chromatographic - Mass Spectrometry

Category (III): Scraped-off toy material:

	Result (mg/kg)			Limit (mg/kg)
	(1)	(2)	(3)	
Soluble Aluminium (Al)	<300	<300	<300	28130
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	<10	18750
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Soluble Copper (Cu)	<10	<10	<10	7700
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Soluble Strontium (Sr)	<100	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
Soluble Organic tin ++	<2.0	<2.0	<2.0	12
Soluble Zinc (Zn)	<100	<100	<100	46000

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	Result (mg/kg)			Limit (mg/kg)
	(4)	(5)	(6)	
Soluble Aluminium (Al)	<300	<300	<300	28130
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
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Soluble Manganese (Mn)	<10	<10	<10	15000
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# TEST REPORT

Number : HKGH0272469102 S1

	Result (mg/kg)			Limit (mg/kg)
	(7)	(8)	(9)	
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Soluble Barium (Ba)	<10	<10	<10	18750
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Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	23
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Soluble Strontium (Sr)	<100	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
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Number : HKGH0272469102 S1

	Result (mg/kg)		Limit (mg/kg)
	(10)	(11)	
Soluble Aluminium (Al)	<300	<300	28130
Soluble Antimony (Sb)	<10	<10	560
Soluble Arsenic (As)	<10	<10	47
Soluble Barium (Ba)	<10	<10	18750
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Soluble Cadmium (Cd)	<5	<5	17
Soluble Chromium (III) (Cr III)	<10	<10	460
Soluble Chromium (VI) (Cr VI)	<0.025	<0.025	0.053
Soluble Cobalt (Co)	<10	<10	130
Soluble Copper (Cu)	<10	<10	7700
Soluble Lead (Pb)	<10	<10	23
Soluble Manganese (Mn)	<10	<10	15000
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Soluble Selenium (Se)	<10	<10	460
Soluble Strontium (Sr)	<100	<100	56000
Soluble Tin (Sn)	<10	<10	180000
Soluble Organic tin ++	<2.0	<2.0	12
Soluble Zinc (Zn)	<100	<100	46000

mg/kg = milligram per kilogram

++ : Unless the test result was marked with "Δ", Organic tin content was not directly determined and was derived from migration result of total tin.

Organic tin test result was expressed as tributyl tin.

Chromium (III) value was calculated as difference between migration results of total Chromium and Chromium (VI) .

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# TEST REPORT

Number : HKGH0272469102 S1

Tested Components:

- (1) Yellow coating on plastic (all figures).
- (2) Black coating on plastic (all figures).
- (3) White coating on plastic (all figures).
- (4) Blue coating on plastic (all figures).
- (5) Red coating on plastic (all figures).
- (6) Orange plastic (all figures).
- (7) Grey plastic (all figures).
- (8) Brown plastic (all figures).
- (9) White plastic (all figures).
- (10) Yellow plastic (all figures).
- (11) Bright white plastic excluding coatings (all figures).

Date sample received : May 11, 2021

Test Period : May 11, 2021 to May 25, 2021

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# TEST REPORT

Number : HKGH0272469102 S1

(9) Cadmium (Cd) Content

Test Method : Acid digestion method was used and total Cadmium content was determined by Inductively Coupled Argon Plasma Spectrometry.

Tested Component	Result in %, w/w	Limit in %, w/w
(1/2/3)	ND	0.1
(4/5)	ND	0.1
(6/7/8)	ND	0.01
(9/10/11)	ND	0.01

ND : Not detected (< 0.0005%)

The above limit was quoted according to REACH Regulation (EC) No. 1907/2006, Annex XVII Item 23 & amendment No. 2016/217.

Tested Components:

- (1) Yellow coating on plastic (all figures).
- (2) Black coating on plastic (all figures).
- (3) White coating on plastic (all figures).
- (4) Blue coating on plastic (all figures).
- (5) Red coating on plastic (all figures).
- (6) Orange plastic (all figures).
- (7) Grey plastic (all figures).
- (8) Brown plastic (all figures).
- (9) White plastic (all figures).
- (10) Yellow plastic (all figures).
- (11) Bright white plastic excluding coatings (all figures).

Date sample received : May 11, 2021

Test Period : May 11, 2021 to May 25, 2021

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# TEST REPORT

Number : HKGH0272469102 S1

(10) Phthalate Content Test

Test Method : ISO 8124-6 : 2018 method A with internal standard calibration, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Seven Phthalates content:

Compound	Result (%, w/w)			Limit (%, w/w)
	(1/2/3)	(4/5)	(6/7/8)	
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01	--
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	<0.01	--
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01	--
Diisobutyl phthalate (DIBP)	<0.01	<0.01	<0.01	--
Sum of DBP, DEHP, BBP & DIBP	<0.01	<0.01	<0.01	0.1
Diisononyl phthalate (DINP)	<0.01	<0.01	<0.01	--
Di-n-octyl phthalate (DnOP)	<0.01	<0.01	<0.01	--
Diisodecyl phthalate (DIDP)	<0.01	<0.01	<0.01	--
Sum of DINP, DnOP & DIDP	<0.01	<0.01	<0.01	0.1

Compound	Result (%, w/w)	Limit (%, w/w)
	(9/10/11)	
Dibutyl phthalate (DBP)	<0.01	--
Diethyl hexyl phthalate (DEHP)	<0.01	--
Benzyl butyl phthalate (BBP)	<0.01	--
Diisobutyl phthalate (DIBP)	<0.01	--
Sum of DBP, DEHP, BBP & DIBP	<0.01	0.1
Diisononyl phthalate (DINP)	<0.01	--
Di-n-octyl phthalate (DnOP)	<0.01	--
Diisodecyl phthalate (DIDP)	<0.01	--
Sum of DINP, DnOP & DIDP	<0.01	0.1

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# TEST REPORT

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The above limit was quoted according to Annex XVII Items 51 & 52 of the REACH Regulation (EC) no. 1907/2006, amendment no. 552/2009 taking into account the (EU) regulation 2018/2005 modifying entry 51 for which the DIBP shall not be placed on the market after 7 July 2020 in toys or childcare articles, individually or in any combination with the first three phthalates which already exist in the entry 51, in a concentration equal to or greater than 0,1 % by weight of the plasticised material.

Tested Components:

- (1) Yellow coating on plastic (all figures).
- (2) Black coating on plastic (all figures).
- (3) White coating on plastic (all figures).
- (4) Blue coating on plastic (all figures).
- (5) Red coating on plastic (all figures).
- (6) Orange plastic (all figures).
- (7) Grey plastic (all figures).
- (8) Brown plastic (all figures).
- (9) White plastic (all figures).
- (10) Yellow plastic (all figures).
- (11) Bright white plastic excluding coatings (all figures).

Date sample received : May 11, 2021  
 Test Period : May 11, 2021 to May 24, 2021

(11) Polycyclic Aromatic Hydrocarbons (PAH) Content

Test Method : The document AfPS GS 2019:01 PAK issued by the Federal Institute for Occupational Safety and Health, solvent extraction and determined by Gas Chromatographic - Mass Spectrometry (GC/MS).

Compound	Result (ppm)			Limit (ppm)
	(1/2/3)	(4/5)	(6/7/8)	
Benzo(a)pyrene	<0.10	<0.10	<0.10	0.5
Benzo(e)pyrene	<0.10	<0.10	<0.10	0.5
Benzo(a)anthracene	<0.10	<0.10	<0.10	0.5
Chrysene	<0.10	<0.10	<0.10	0.5
Benzo(b)fluoranthene	<0.10	<0.10	<0.10	0.5
Benzo(j)fluoranthene	<0.10	<0.10	<0.10	0.5
Benzo(k)fluoranthene	<0.10	<0.10	<0.10	0.5
Dibenzo(a,h)anthracene	<0.10	<0.10	<0.10	0.5

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# TEST REPORT

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Compound	Result (ppm)	Limit (ppm)
	(9/10/11)	
Benzo(a)pyrene	<0.10	0.5
Benzo(e)pyrene	<0.10	0.5
Benzo(a)anthracene	<0.10	0.5
Chrysene	<0.10	0.5
Benzo(b)fluoranthene	<0.10	0.5
Benzo(j)fluoranthene	<0.10	0.5
Benzo(k)fluoranthene	<0.10	0.5
Dibenzo(a,h)anthracene	<0.10	0.5

The above limit was quoted according to Annex XVII Items 50 of the REACH Regulation (EC) no. 1907/2006 & amendment (EU) no. 1272/2013 for polycyclic aromatic hydrocarbons (PAH).

ppm = parts per million = mg/kg

Tested Components:

- (1) Yellow coating on plastic (all figures).
- (2) Black coating on plastic (all figures).
- (3) White coating on plastic (all figures).
- (4) Blue coating on plastic (all figures).
- (5) Red coating on plastic (all figures).
- (6) Orange plastic (all figures).
- (7) Grey plastic (all figures).
- (8) Brown plastic (all figures).
- (9) White plastic (all figures).
- (10) Yellow plastic (all figures).
- (11) Bright white plastic excluding coatings (all figures).

Date sample received : May 11, 2021

Test Period : May 11, 2021 to May 24, 2021

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# TEST REPORT

Number : HKGH0272469102 S1

(12) Organotin Content

Test Method : By solvent extraction, followed by Gas Chromatography Mass Spectrometric (GC/MS) analysis.

Compound	Result (% w/w)			Limit (% w/w)
	(1/2/3)	(4/5)	(6/7/8)	
Tri-substituted Organotin <sup>^</sup>	<0.005	<0.005	<0.005	0.1
Dibutyltin (DBT)	<0.005	<0.005	<0.005	0.1
Diocetyl tin (DOT)	<0.005	<0.005	<0.005	0.1

Compound	Result (% w/w)	Limit (% w/w)
	(9/10/11)	
Tri-substituted Organotin <sup>^</sup>	<0.005	0.1
Dibutyltin (DBT)	<0.005	0.1
Diocetyl tin (DOT)	<0.005	0.1

The above limit was quoted according to Annex XVII Item 20 of the REACH Regulation (EC) no. 1907/2006 & amendment (EU) No. 276/2010 (formerly known as Decision 2009/425/EC) for organotin content.

<sup>^</sup> = The reported value was calculated by summation of the values of Tri-butyltin, Tri-phenyltin, Tri-methyltin, Tri-octyltin, Tri-cyclohexyltin

Detection limit = 0.005% (w/w) of tin

Tested Components:

- (1) Yellow coating on plastic (all figures).
- (2) Black coating on plastic (all figures).
- (3) White coating on plastic (all figures).
- (4) Blue coating on plastic (all figures).
- (5) Red coating on plastic (all figures).
- (6) Orange plastic (all figures).
- (7) Grey plastic (all figures).
- (8) Brown plastic (all figures).
- (9) White plastic (all figures).
- (10) Yellow plastic (all figures).
- (11) Bright white plastic excluding coatings (all figures).

Date sample received : May 11, 2021

Test Period : May 11, 2021 to May 25, 2021

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# TEST REPORT

Number : HKGH0272469102 S1

(13) Short Chain Chlorinated Paraffin (C10 - C13) (SCCP) Content

Test Method : Solvent extraction and followed by Gas Chromatographic - Negative Chemical Ionization - Mass Spectrometry (GC-NCI-MS) Analysis.

Tested Component	Result in %, w/w
(1/2/3)	<0.01
(4/5/6)	<0.01

Requirement: 0.15% (w/w)

Detection limit = 0.01% (w/w)

Tested Components:

- (1) Orange plastic (all figures).
- (2) Grey plastic (all figures).
- (3) Brown plastic (all figures).
- (4) White plastic (all figures).
- (5) Yellow plastic (all figures).
- (6) Bright white plastic excluding coatings (all figures).

Date sample received : May 11, 2021

Test Period : May 11, 2021 to May 25, 2021

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## TEST REPORT

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### Appendix

#### 恐龍類 ( DINOSAUR TYPE )

208	530	550	330	330N	550N	231	232
886-12	886-12N	48	48N	67	84	234	235
90	1050	1060	888	120	121	236	237
122	138	141	152	156	192	238	245
197	197N	198	195IC	195BB	205	260	267
216	217	218	229	229N	1984	261	268
213	213N	222	222N	120N	121N	262	530R
122N	191N	229N	195N	119	119N	265	119B
149	149N	191	102	220R	221	266	120R
121R	122R						

#### 野生類 ( WILD ANIMALS TYPE )

560	311	201	52	85	86	239	241
103	106	107	111	113	126	240	275
127	128	129	130	134	137	242	276
140	142	143	166	167	178	273	560R
194	570	199	200	211	211A2	274	570R
78	580	581	520	311R			

#### 農場類 ( FARM ANIMALS TYPE )

05	09	24	32	33	66	244	245
71	88	89	91	110	112	264	271
132	133	146	157	165	175	269	272
1040	203	06	215	N66	233	270	09N
2000	302	322NC	323NC	257	258	09R	

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### 海洋類 ( OCEAN ANIMALS TYPE )

10	21	30	34	37	43	246	247
53	56	70	76	94	99	263	10N
100	104	117	118	131	135	277	10R
136	147	163	164	174	188	278	147R
182	183	184	185	186	187	279	
189	190	202	214	230	79	280	

### 昆蟲類 ( INSECT TYPE )

1985	07	11	13	17	23	248	249
35	38	40	45	63	64	281	284
65	72	77	83	87	93	282	38R
98	105	161	162	65S	35N	283	
207	301						

### 鳥類 ( BIRD TYPE )

46	50	57	80	145	144		
139	193	196	158	108	153		
173	285	286	287				

### 爬蟲類 ( REPTILE ANIMALS TYPE )

350	370	370N	380	380N	390	39
500	510	01	02	03	04	75S
08	12	14	15	16	18	252
19	20	22	25	26	27	254
28	29	31	41	42	44	255
47	49	51	55	58	59	256
60	61	62	73	74	75	318
81	82	92	95	96	97	288
101	109	114	115	116	123	289
124	125	144	145	148	150	290
151	154	158	170	171	172	291
176	177	179	204	210	212	49R
223	226S	303	227S	228S	243	

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### 萬聖節 ( HALLOWEEN TYPE )

340	360	54	68	69	180
181	206	225	159	160	168
169	209	219	225	224	155
181A	206A	292	293		

### OA 類 ( OA TYPE )

OA001	OA002	OA003	OA004	OA005	OA006
OA007	OA008	OA009	OA010	OA011	OA012
OA013	OA014	OA015	OA016	OA017	OA018
OA019	OA020	OA021	OA022	OA023	OA024
OA025	OA026	OA027	OA028	OA029	OA030
OA031	OA032	OA033	OA034	OA035	OA036
OA037	OA038	OA039	OA040	OA041	OA042
OA043	OA044	OA045	OA046	OA047	OA048
OA049	OA050	OA051	OA052	OA053	OA054
OA055	OA056	OA057	OA058	OA059	OA060
OA061	OA062	OA063	OA064	OA065	OA066
OA067	OA068	OA069	OA070	OA071	OA072

### 卡通類 ( CARTOON TYPE )

F001	F002	F003	F004	F005	F006
F007	F008	F009	F010	F011	F012
F013	F014	F015	F016	F017	F018
F019	F020	F021	F022	F023	F024
F025	F026	F027	F028	F029	F030
F002A	F003A	F004A	F005A	F006A	F007A
F008A	F009A	F010A	F011A	F012A	F013A
F014A	F015A	F016A	F017A	F018A	F019A
F020A	F021A	F022A	F023A	F024A	F025A
F002BL	F003BL	F004BL	F005BL	F006BL	F007BL
F008BL	F009BL	F010BL	F011BL	F012BL	F013BL
F014BL	F015BL	F016BL	F017BL	F018BL	F019BL
F002UL	F003UL	F009UL	F010UL	F011UL	F012UL
F013UL	F014UL				

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## TEST REPORT

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### 史前類 ( PREHISTORIC TYPE )

P001	P002	P003	P004	P005	P006
P007	P008	P009	P010	P011	P012
P002A	P001RA	P001R	P002R	P003R	P004R
P005R	P006R	P007R	P008R	P009R	P010R

### TM 類 ( TM TYPE )

TM01	TM02	TM03	TM04	TM05	TM06
TM07	TM08	TM09	TM10	TM11	TM12
TM13	TM14	TM15	TM16	TM17	TM18
TM19	TM20	TM21	TM22	TM23	TM24
TM25	TM26	TM27	TM28	TM29	TM30
TM31	TM32	TM33	TM34	TM35	TM36
TM37	TM38	TM39	TM40	TM41	TM42
TM43	TM44	TM45	TM46	TM47	TM48
TM49	TM50	TM51	TM52	TM53	TM54
TM55	TM56	TM57	TM58	TM59	TM60
TM61	TM62	TM63	TM64	TM65	TM66
TM62	TM63	TM64	TM65	TM66	TM67
TM68	TM69	TM70	TM71	TM72	TM73
TM74	TM75	TM76	TM77	TM78	TM79
TM80	TM81	TM82	TM83	TM84	TM85
TM86	TM87	TM88	TM89	TM90	TM91
TM92	TM93	TM94	TM95	TM96	TM97
TM98	TM99	TM100	TM101	TM102	TM103
TM104	TM105	TM106	TM107	TM108	TM109
TM110	TM111	TM112	TM113	TM114	TM115
TM116	TM117	TM118	TM119	TM120	TM121
TM122	TM123	TM124	TM125	TM126	TM127

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## TEST REPORT

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### 夜光類 ( GLOW IN THE DARK )

04G	05G	06G	07G	08G	09G	156G
10G	11G	12G	13G	14G	15G	181G
16G	17G	18G	19G	20G	21G	205G
22G	23G	24G	25G	26G	27G	206G
28G	29G	30G	31G	32G	33G	208G
34G	35G	36G	37G	38G	39G	530G
40G	41G	42G	46G	49G	48G	560G
77G	311G	56G	340G	58G	76G	301G

04GLP	05GLP	06GLP	07GLP	08GLP	09GLP	156GLP
10GLP	11GLP	12GLP	13GLP	14GLP	15GLP	181GLP
16GLP	17GLP	18GLP	19GLP	20GLP	21GLP	205GLP
22GLP	23GLP	24GLP	25GLP	26GLP	27GLP	206GLP
28GLP	29GLP	30GLP	31GLP	32GLP	33GLP	208GLP
34GLP	35GLP	36GLP	37GLP	38GLP	39GLP	530GLP
40GLP	41GLP	42GLP	43GLP	44GLP	45GLP	560GLP
46GLP	47GLP	48GLP	49GLP	50GLP	51GLP	
77GLP	311GLP	56GLP	340GLP	58GLP	76GLP	

### 硬膠配件類

### ( HARD PLASTIC TYPE )

8001	8002	8003	8004	8005	8006	8055
8007	8008	8009	8010	8011	8012	8056
8013	8014	8015	8016	8017	8018	8057
8019	8020	2021	2022	8023	8024	8058
8025	8026	8027	8028	8029	8030	8059
8031	8032	8033	8034	8035	8036	8060
8037	8038	8039	8040	8041	8042	
8043	8044	8045	8046	8047	8048	
8049	8050	8051	8052	8053	8054	

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TPR 料 ( TPR TYPE )

A001P	A002	A003	A004P	A005P	A006P
A007P	A008	A009	A010P	A011P	A012P
A013	A014	A015P	A016P	A017P	A018P
A019P	A020P	A021P	A022P	A023P	A024P
A025P	A026P	A027P	A028P	A029P	A030
A031P	A032P	A033P	A034P	A035P	A036P
A037P	A038P	A039P	A040P	A041P	A042P
A043P	A044P	A045P	A046P	A047P	A048P
A049P	A050P	A051P	A052P	A053P	A054P
A055P	A056P	A057P	A058P	A059P	A060P
A061P	A062P	A063P	A064P	A065P	A066P
A1001	A1002	A1003	A1004	A1005	A1006
A1007	A1008	A1009	A1010	A1011	A1012
C1001	C1002	C1003	C1004	C1005	C1006
C1007	C1008	C1009	C1010	C1011	C1012
A172	C14	C15	C28	C030	C26
C29	C31	C72	C172	C40	C45

HC 包裝類 ( HEADER CARD )

HC001/1	HC001/2	HC001/3	HC001/4	HC001/5	HC001/6	HC001/7
HC002/1	HC002/2	HC002/3	HC002/4	HC002/5	HC002/6	HC002/7
HC003/1	HC003/2	HC003/3	HC003/4	HC003/5	HC003/6	HC003/7
HC004/1	HC004/2	HC004/3	HC004/4	HC004/5	HC004/6	HC004/7
HC005/1	HC005/2	HC005/3	HC005/4	HC005/5	HC005/6	HC005/7
HC006/1	HC006/2	HC006/3	HC006/4	HC006/5	HC006/6	HC006/7
HC007/1	HC007/2	HC007/3	HC007/4	HC007/5	HC007/6	HC007/7
HC008/1	HC008/2	HC008/3	HC008/4	HC008/5	HC008/6	HC008/7
HB001	HB002	HB003	HB004	HB005	HB006	HB007
HB008	HB009	HB010/G	HB011/G	HB012/G	HB013/G	HB014/G
HB015/G	HP001	HP002	HP003	HP004	HP005	HP006

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## TEST REPORT

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### 窗盒裝 ( WINDOW BOX TYPE )

WB001	WB002	WB003	WB004	WB005	WB006	WB007
WB008	WB009	WB010	WB011	WB012	WB013	WB014
WB015	WB016	WB017	WB018	WB019	WB020	WB021
WB022	WB023	WB024	WB025	WB026	WB027	WB028
WB029	WB030	WN001-A	WN001-B	WN002-A	WN002-B	WN003-A
WN003-B	WN004-A	WN004-B	WN005-A	WN005-B	WN006-A	WN006-B
LB001	LB002	LB003	LB004	LB005	LB006	LB007
LB008	LB009	LB010				
RB001	RB002	RB003	RB004	RB005		
WS001	WS002	WS003	WS004	WS005	WS006	

### 吸塑裝 ( BLISTER CARD )

BC001	BC002	BC003	BC004	BC005	BC006	BC007
BC008	BC009	BC010	BC011	BC012	BC013	

### 四方桶裝 ( TUBE )

FT001	FT002	FT003	FT004	FT005	FT006	
CT001	CT002	CT003	CT004	CT005	CT006	CT007

### 桶裝 ( BUCKET )

YT001/A	YT001/B	YT001/C	YT001/D	YT001/E	YT001/F	YT001/G
YT001/H	YT001/I	YT002/A	YT002/B	YT002/C	YT002/D	YT002/E
YT002/F	YT002/G	YT002/H	YT003/A	YT003/B	YT003/C	YT003/D
YT003/E	YT003/F	YT003/G	YT003/H	YT004/A	YT004/B	YT004/C
YT004/D	YT004/E	YT004/F	YT004/G	YT004/H	YT002/1	YT002/2
YT002/3	YT002/4	YT002/5	YT002/6	YT007/1	YT007/2	YT007/3
YT007/4	8005/1	8005/2	8005/3			

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# TEST REPORT

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鑰匙扣

09KY	10KY	11KY	20KY	29KY	31KY	146KY
162KY	163KY	165KY	166KY	172KY	173KY	174KY
175KY	182KY	183KY	188KY	189KY	190KY	192KY
199KY	201KY	530KY	560KY	F002KY	F003KY	F010KY
530GKY	10GKY	560GKY	HWKY			

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End of report

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