

TEST REPORT

Applicant: BASIC FUN, INC.
301 YAMATO ROAD SUITE 4200
BOCA RATON FLORIDA 33431
USA

Number: HKGH02787105

Date: Oct 08, 2021

Attn: JOHN ZIMMER

Submitted sample said to be :
Item name : **STEM EXPLORATIONS GEARS BUILDING SET**
Style no. : 79318
Quantity : 3 sets
Labelled age group : "8+"
Appropriate age grade for testing : For age over 8 years
Age grading for testing : For age over 8 years
Packaging provided : Yes.
Manufacturer : Herald Metal & Plastic Co Ltd. (Dong Guang)
Place of manufacture : Sha tang Pu Xin Zone, Shipai Town, Donguang City, Guangdong
Province China 523338.
UPC code : 744476793188
Date code on Packaging : 0521130
Country of origin : Packaged in China
TRF No. : KNXPLT2105010
Date Sample Received : Jun 01, 2021
Testing Period : Jun 01, 2021 to Oct 07, 2021

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) U.S. ASTM F963-17 - Physical and Mechanical tests	Pass
(2) ASTM F963-17 - Flammability Test of Materials other than textile materials	Pass
(3) ASTM F963-17 - Total Lead content	Pass
(4) ASTM F963-17 - Soluble heavy elements test ∞	Pass
(5) U.S. CFR Title 16 (CPSC Regulations)	Not Applicable
(6) U.S. CFR Title 16 (CPSC Regulations) - Part 1500.3(c)(6)(vi) - Flammability test on rigid and pliable solids	Pass
(7) Consumer Product Safety Improvement Act (CPSIA) 2008 Section 103 - Tracking labels for children products	Pass
(8) U.S. Consumer Product Safety Improvement Act 2008 Title I Section 101 - Total Lead content in non-surface coating materials (substrate)	Pass
(9) U.S. CFR Title 16 (CPSC Regulations) - Part 1303 - Total Lead content in surface coating	Pass
U.S. Consumer Product Safety Improvement Act 2008 Title I Section 101 - Total Lead content in surface coating	Pass
(10) California Proposition 65 for toys, Consent Judgement no. RG-356892 - Lead content	Pass



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<u>Requirement</u>	<u>Result</u>
(11) Illinois Lead Poisoning Prevention Act 410 ILCS 45 - Total Lead content	Pass
(12) US CPSC 16 CFR Part 1307 Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates - Phthalate content	Pass
(13) California Health and Safety Code, Part 3 of Division 104, Chapter 11(AB1108). - Requirement on phthalate	Pass
(14) California Proposition 65 for Toys (designed for or reasonable used by children under six years of age), Consent judgment no. BG-350969 - Phthalate content	Pass
(15) Labeling review for toys: - The Packaging and Labeling Requirements of The Uniform Packaging and Labeling Regulation.	Pass
(16) Canada Consumer Product Safety Act Toys Regulations SOR/2011-17 (last amended on 11 January 2019) section 21 - Celluloid or Cellulose nitrate	Pass
(17) Canada Consumer Product Safety Act Toys Regulations SOR/2011-17 (last amended on 11 January 2019) - Mechanical and physical test	Pass
(18) Canada Consumer Product Safety Act Toys Regulations SOR/2011-17 section 23 with amendments SOR/2016-195 - Toxic elements test	Pass
(19) Consumer Products Containing Lead Regulations SOR/2018-83 - Total Lead content test	Pass
(20) Canada Products Containing Mercury Regulations SOR/2014-254 - Total Mercury Content	Pass



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<u>Requirement</u>	<u>Result</u>
(21) Canada Consumer Product Safety Act Surface Coating Materials Regulations SOR/2016-193 Section 2 & 5 - Lead and Mercury content test	Pass
(22) Phthalates Regulations SOR/2016-188 Section 2 & 3(1) - Phthalate content	Pass
(23) Consumer Packaging and Labelling Act and Regulations (C.R.C. c417, with amendment). Marking assessment on - Product identity / description - Name and address of dealer - Net quantity in correct unit The Charter of French Language, Title I, Chapter VII, Clause 51 (Quebec) - Language use of Warnings, cautions, Instruction of use, where applicable Quebec Regulation Respecting Stuffing and Upholstered and Stuffed Articles - Format of Upholstered and Stuffed Article Label Canada Customs Tariff, Marking of Imported Goods Regulations, SOR/94-16 - Country of origin marking	See Details Enclosed
(24) BS EN 71-1:2014 + A1:2018 / EN 71-1:2014 + A1:2018 - Mechanical and physical properties	Pass
(25) BS EN 71-2:2011 + A1:2014 / EN 71-2:2011 + A1:2014 - Flammability Test	Pass
(26) BS EN 71-2:2020 / EN 71-2:2020 - Flammability Test	Pass
(27) EN 71-3 : 2019 + A1 : 2021 - Migration of certain elements	Pass
(28) BS EN 71-3 : 2019 + A1 : 2021 - Migration of certain elements	Pass



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<u>Requirement</u>	<u>Result</u>
(29) EN 71-3:2019 and Directive (EU) 2019/1922 amending 2009/48/EC effective from 20 May 2021 - Migration of certain elements	Pass
(30) BS EN71-3:2019 and Directive (EU) 2019/1922 amending 2009/48/EC effective from 20 May 2021 - Migration of certain elements	Pass
(31) REACH Regulation (EC) No.1907/2006 , Annex XVII Item 23 & amendment No. 2016/217 - Cadmium content requirement	Pass
(32) Cadmium Content Requirement in Annex XVII Entry 23 of the REACH Regulation (EC) No 1907/2006 and Amendment (EC) No 552/2009, (EU) No 494/2011, (EU) No 835/2012 and (EU) 2016/217 & The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 (S.I. 2019 No. 758) - Cadmium content requirement	Pass
(33) REACH Regulation (EC) no. 1907/2006, Annex XVII Items 51 & 52, amendment no. 552/2009 & 2018/2005 - Phthalates content	Pass
(34) REACH Regulation (EC) no. 1907/2006, Annex XVII, Item 51 & 52 & amendment no. 552/2009 & 2018/2005 & The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 (S.I. 2019 No. 758) as amended - Phthalates content	Pass
(35) REACH Regulation (EC) No. 1907/2006, Annex XVII item 20 & amendment (EU) No. 276/2010 - Organotin content requirement	Pass
(36) REACH Regulation (EC) No. 1907/2006, Annex XVII, Item 20 & amendment no. 276/2010 & The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 (S.I. 2019 No. 758) as amended - Organotin content requirement	Pass



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<u>Requirement</u>	<u>Result</u>
(37) REACH Regulation (EC) no. 1907/2006 & amendment (EU) no. 1272/2013 Annex XVII Item 50 - Polycyclic aromatic hydrocarbons content	Pass
(38) REACH Regulation (EC) no. 1907/2006 & amendment no. 1272/2013, Annex XVII, Item 50 & The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 (S.I. 2019 No. 758) as amended - Polycyclic aromatic hydrocarbons content	Pass
(39) GS Certification - Polycyclic Aromatic Hydrocarbons (PAHs) as per AfPS GS 2019:01 PAK	Pass
(40) Australian / New Zealand standard AS/NZS ISO 8124-1:2019 + Amd 1:2020 + Amd 2:2020 - Safety aspects related to mechanical and physical properties	Pass
(41) Australian/New Zealand Standard AS/NZS 8124.2: 2016 - Flammability test	Pass
(42) AS/NZS ISO 8124-3:2003 (Australian Trade Practice Act 1974 with Consumer Protection Notice no. 1, 2009 - Consumer Product Safety Standard for Lead and certain elements in children's toys.) - Toxic elements test ∞	Pass
Australian Customs Notice no. 2007/46 - amendments to the Customs (Prohibited Imports) Regulations 1956 Schedule 2 Item 2 - Toxic elements test ∞	Pass
AS/NZS ISO 8124-3:2021 - Toxic elements test ∞	Pass

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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(1) Physical and Mechanical Tests

Test Standard : ASTM Standard Consumer Safety Specification for Toy Safety F963-17

Age group for testing : For Ages Over 8 Years

Clause	Requirement	Assessment
4.1	Material quality	P
4.5	Sound producing toys	NA
4.6.1	Toys intended for children under 36 months of age	NA
4.6.2	Mouth actuated toys	NA
4.6.3	Toys and games for 36 months to 72 months - Small part warning	NA
4.7	Accessible edges	NA
4.8	Projection	NA
4.9	Accessible points	NA
4.10	Wires or rods	NA
4.11	Nails and fasteners	NA
4.12	Plastic film	P
4.13	Folding mechanisms and hinges	NA
4.14	Cords, straps, and elastics	NA
4.15	Stability and overload requirement	NA
4.16	Confined spaces	NA
4.17	Wheels, tires, and axles (96 months of age or less)	NA
4.18	Holes, clearance, and accessibility of mechanisms	NA
4.19	Simulated protective devices	NA
4.20	Pacifiers	NA
4.21	Projectile toys	NA
4.22	Teethers and teething toys	NA
4.23	Rattles	NA
4.24	Squeeze toys	NA
4.25	Battery operated toys	NA
4.26	Toys intended to be attached to a crib or playpen	NA
4.27	Stuffed and beanbag type toys	NA
4.28	Stroller and carriage toys	NA
4.29	Art materials	NA
4.30	Toy gun marking	NA



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Clause	Requirement	Assessment
4.31	Balloons	NA
4.32	Certain toys with nearly spherical ends	NA
4.33	Marbles	NA
4.34	Balls	NA
4.35	Pompoms	NA
4.36	Hemispherical shaped objects	NA
4.37	Yo Yo elastic tether toys	NA
4.38	Magnets	NA
4.39	Jaw Entrapment in Handles and Steering Wheels	NA
4.40	Expanding materials	NA
4.41	Toy chests	NA
5	Labeling requirements	P
6	Instructional literature	P
7	Producer's marking	
	- Name of producer / distributor	Yes
	- Address	Yes

Abbreviation : P = Pass NA = Not Applicable

The submitted samples were undergone the tests in accordance with section 8.5 through section 8.17 and 8.19 through 8.26 on normal use, abuse and specific tests for different types of toys whichever is applicable.

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(2) Flammability Tests

Test Standard : Section 4.2 of the ASTM Standard Consumer Safety Specification for Toy Safety F963-17.

<u>Sample</u>	<u>Ignition point</u>	<u>Burn length</u> (inch)	<u>Time (sec)</u>	<u>Burn Rate</u> (inch/sec)	<u>Limit (inch/sec)</u>
Rod	End	1.0	60	0.02	0.10

The above result only showed the most severe burn rate of the samples and components.

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(3) Total Lead (Pb) Content

Test Method : CPSC-CH-E1001-08.3, CPSC-CH-E1002-08.3 or/and CPSC-CH-E1003-09.1,
analysed by Inductively Coupled Argon Plasma Spectrometry.

Coating:

Tested Component	Result in ppm	Limit in ppm
(16)	<20	90

Substrate:

Tested Component	Result in ppm	Limit in ppm
(1)	<20	100
(2)	<20	100
(3)	<20	100
(4)	<20	100
(5)	<20	100
(6)	<20	100
(7)	<20	100
(8)	<20	100
(9)	<20	100
(10)	<20	100
(11)	<20	100
(12)	<20	100
(13)	<20	100
(14)	<20	100
(15)	<20	100

The above limit was quoted according to Section 4.3.5.1 (1) and 4.3.5.2 (2)(a) of the ASTM standard Consumer Safety Specification for Toy Safety F963-17.

ppm = parts per million = mg/kg



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Tested Components:

- (1) Translucent white plastic (Resin #X0018).
- (2) White plastic (Resin #X0052).
- (3) Beige plastic (Resin #X0169).
- (4) Red plastic (Colorant #Y0123).
- (5) White plastic (Colorant #Y0136).
- (6) Deep blue plastic (Colorant #Y0192).
- (7) Silver color plastic (Colorant #Y0207).
- (8) Dull blue plastic (Colorant #Y0320).
- (9) Light tan color plastic (Colorant #Y0345).
- (10) Deep purple plastic (Colorant #Y0352).
- (11) Dark grey plastic (Colorant #Y0353).
- (12) Dark green plastic (Colorant #Y0354).
- (13) Orange plastic (Colorant #Y0355).
- (14) Deep blue plastic (Colorant #Y0356).
- (15) Dull orange plastic (Colorant #Y0357).
- (16) Coatings on paper sheet (INX06 - (Herald Instructions)).

Date sample received : Aug 03, 2021, Sep 16, 2021 and Sep 28, 2021

Test Period : Aug 03, 2021 to Oct 05, 2021



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(4) Heavy Elements Analysis

Test Method : Acid extraction and analysed by Inductively Coupled Argon Plasma Spectrometry.

Materials other than modelling clay:

	Result (ppm)			Limit (ppm)
	(1)	(2)	(3)	
Soluble Barium (Ba)	<5	<5	<5	1000
Soluble Lead (Pb)	<5	<5	<5	90
Soluble Cadmium (Cd)	<5	<5	<5	75
Soluble Antimony (Sb)	<5	<5	<5	60
Soluble Selenium (Se)	<5	<5	<5	500
Soluble Chromium (Cr)	<5	<5	<5	60
Soluble Mercury (Hg)	<5	<5	<5	60
Soluble Arsenic (As)	<2.5	<2.5	<2.5	25

	Result (ppm)			Limit (ppm)
	(4)	(5)	(6)	
Soluble Barium (Ba)	80	43	<5	1000
Soluble Lead (Pb)	<5	<5	<5	90
Soluble Cadmium (Cd)	<5	<5	<5	75
Soluble Antimony (Sb)	<5	<5	<5	60
Soluble Selenium (Se)	<5	<5	<5	500
Soluble Chromium (Cr)	<5	<5	<5	60
Soluble Mercury (Hg)	<5	<5	<5	60
Soluble Arsenic (As)	<2.5	<2.5	<2.5	25

	Result (ppm)			Limit (ppm)
	(7)	(8)	(9)	
Soluble Barium (Ba)	<5	51	64	1000
Soluble Lead (Pb)	<5	<5	<5	90
Soluble Cadmium (Cd)	<5	<5	<5	75
Soluble Antimony (Sb)	<5	<5	<5	60
Soluble Selenium (Se)	<5	<5	<5	500
Soluble Chromium (Cr)	<5	<5	<5	60
Soluble Mercury (Hg)	<5	<5	<5	60
Soluble Arsenic (As)	<2.5	<2.5	<2.5	25



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	Result (ppm)			Limit (ppm)
	(10)	(11)	(12)	
Soluble Barium (Ba)	62	75	<5	1000
Soluble Lead (Pb)	<5	<5	<5	90
Soluble Cadmium (Cd)	<5	<5	<5	75
Soluble Antimony (Sb)	<5	<5	<5	60
Soluble Selenium (Se)	<5	<5	<5	500
Soluble Chromium (Cr)	<5	<5	<5	60
Soluble Mercury (Hg)	<5	<5	<5	60
Soluble Arsenic (As)	<2.5	<2.5	<2.5	25

	Result (ppm)			Limit (ppm)
	(13)	(14)	(15)	
Soluble Barium (Ba)	70	46	61	1000
Soluble Lead (Pb)	<5	<5	<5	90
Soluble Cadmium (Cd)	<5	<5	<5	75
Soluble Antimony (Sb)	<5	<5	<5	60
Soluble Selenium (Se)	<5	<5	<5	500
Soluble Chromium (Cr)	<5	<5	<5	60
Soluble Mercury (Hg)	<5	<5	<5	60
Soluble Arsenic (As)	<2.5	<2.5	<2.5	25

	Result (ppm)		Limit (ppm)
	(16)	(17)	
Soluble Barium (Ba)	<5	<5	1000
Soluble Lead (Pb)	<5	<5	90
Soluble Cadmium (Cd)	<5	<5	75
Soluble Antimony (Sb)	<5	<5	60
Soluble Selenium (Se)	<5	<5	500
Soluble Chromium (Cr)	<5	<5	60
Soluble Mercury (Hg)	<5	<5	60
Soluble Arsenic (As)	<2.5	<2.5	25

The above limit was quoted according to Section 8.3.2, 8.3.3, 8.3.4 and 8.3.5 of the ASTM standard Consumer Safety Specification for Toy Safety F963-17.

ppm = parts per million = mg/kg



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Tested Components:

- (1) Translucent white plastic (Resin #X0018).
- (2) White plastic (Resin #X0052).
- (3) Beige plastic (Resin #X0169).
- (4) Red plastic (Colorant #Y0123).
- (5) White plastic (Colorant #Y0136).
- (6) Deep blue plastic (Colorant #Y0192).
- (7) Silver color plastic (Colorant #Y0207).
- (8) Dull blue plastic (Colorant #Y0320).
- (9) Light tan color plastic (Colorant #Y0345).
- (10) Deep purple plastic (Colorant #Y0352).
- (11) Dark grey plastic (Colorant #Y0353).
- (12) Dark green plastic (Colorant #Y0354).
- (13) Orange plastic (Colorant #Y0355).
- (14) Deep blue plastic (Colorant #Y0356).
- (15) Dull orange plastic (Colorant #Y0357).
- (16) Coatings on paper sheet (INX06 - (Herald Instructions)).
- (17) White thread (binding of Herald Instructions).

Decision Rule:

∞ : Materials are deemed to comply with the requirements if the adjusted analytical result is less than or equal to the limit of this table.

The analytical result of materials shall be adjusted by subtracting the analytical correction in below table to obtain an adjusted analytical of result.

Elements	Sb	As	Ba	Cd	Cr	Pb	Hg	Se
Analytical Correction(%)	60	60	30	30	30	30	50	60

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(5) Mechanical and Physical Test

Test Standard : U.S. code of Federal Regulations Title 16 Part 1500.50, the hazards of sharp points, sharp edge and small parts are assessed both before and after applicable use and abuse tests.

Age group for testing : For Ages Over 8 Years

Remark:

The physical and mechanical tests requirements of U.S. Consumer Products Safety Commission for toys and articles intended for use by the children specified in U.S. Code of Federal Regulations Title 16, Part 1500.48, 1500.49 and 1501 are only for children under 8 years of age. Therefore, the submitted sample was found not applicable.

Date sample received : Jun 01, 2021

Test Period : Jun 01, 2021 to Jun 07, 2021

(6) Flammability Tests

Test Standard : U.S. Code of Federal Regulations Title 16 Part 1500.44 for rigid and pliable solids.

<u>Sample</u>	<u>Ignition point</u>	<u>Burn length</u> <u>(inch)</u>	<u>Time (sec)</u>	<u>Burn Rate</u> <u>(inch/sec)</u>	<u>Limit (inch/sec)</u>
Rod	End	1.0	60	0.02	0.10

The above result only showed the most severe burn rate of the samples and components.

Date sample received : Jun 01, 2021

Test Period : Jun 01, 2021 to Jun 07, 2021



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(7) Tracking Label Assessment

Test Standard : Consumer Product Safety Improvement Act (CPSIA) 2008 Section 103 tracking labels for children products.

Tracking label found on the packaging:

K'NEX
0521130

Tracking label found on the product:

K'NEX
0521130

Note: The tracking label assessment was based on the submitted sample and the information provided by the applicant. There was no verification on the validity of such information.

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(8) Total Lead (Pb) Content in Non-Surface Coating Materials (Substrate)

Test Method : Standard Operating Procedures for Determining Total Lead (Pb) in Children's Products, test methods CPSC-CH-E1002-08.3 and/or CPSC-CH-E1001.08.3, analysed by Inductively Coupled Argon Plasma Spectrometry.

Tested Component	Result in ppm	Limit in ppm
(1)	<20	100
(2)	<20	100
(3)	<20	100
(4)	<20	100
(5)	<20	100
(6)	<20	100
(7)	<20	100
(8)	<20	100
(9)	<20	100
(10)	<20	100
(11)	<20	100
(12)	<20	100
(13)	<20	100
(14)	<20	100
(15)	<20	100

The above limit was quoted according to U.S. Consumer Product Safety Improvement Act 2008 Title I, Section 101.

ppm = parts per million = mg/kg



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Tested Components:

- (1) Translucent white plastic (Resin #X0018).
- (2) White plastic (Resin #X0052).
- (3) Beige plastic (Resin #X0169).
- (4) Red plastic (Colorant #Y0123).
- (5) White plastic (Colorant #Y0136).
- (6) Deep blue plastic (Colorant #Y0192).
- (7) Silver color plastic (Colorant #Y0207).
- (8) Dull blue plastic (Colorant #Y0320).
- (9) Light tan color plastic (Colorant #Y0345).
- (10) Deep purple plastic (Colorant #Y0352).
- (11) Dark grey plastic (Colorant #Y0353).
- (12) Dark green plastic (Colorant #Y0354).
- (13) Orange plastic (Colorant #Y0355).
- (14) Deep blue plastic (Colorant #Y0356).
- (15) Dull orange plastic (Colorant #Y0357).

Date sample received : Aug 03, 2021, Sep 16, 2021 and Sep 28, 2021
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(9) Total Lead (Pb) Content in Surface Coating

Test Method : Standard Operating Procedure for Determining Lead (Pb) in Paint and Other Similar Surface Coatings, test method CPSC-CH-E1003-09.1, analysed by Inductively Coupled Argon Plasma Spectrometry.

Tested Component	Result in ppm	Limit in ppm
(1)	<20	90

The Above limit was quoted according to U.S. CFR Title 16 Part 1303 and U.S. Consumer Product Safety Improvement Act 2008 Title I, Section 101.

ppm = parts per million = mg/kg

Tested Component:

- (1) Coatings on paper sheet (INX06 - (Herald Instructions)).

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(10) Total Lead (Pb) content

Test Method : Acid digestion and analysed by Inductively Coupled Argon Plasma Spectrometry.

Coating:

Tested Component	Result in %, w/w	Limit in %, w/w
(16)	<0.0020	0.009

Substrate:

Tested Component	Result in %, w/w	Limit in %, w/w
(1)	<0.0020	0.010
(2)	<0.0020	0.010
(3)	<0.0020	0.010
(4)	<0.0020	0.010
(5)	<0.0020	0.010
(6)	<0.0020	0.010
(7)	<0.0020	0.010
(8)	<0.0020	0.010
(9)	<0.0020	0.010
(10)	<0.0020	0.010
(11)	<0.0020	0.010
(12)	<0.0020	0.010
(13)	<0.0020	0.010
(14)	<0.0020	0.010
(15)	<0.0020	0.010

The above limit was quoted from the Consent Judgement no. RG-356892 settled by Superior Court of the State of California for the County of Alameda, for toys based on the California Proposition 65.



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Tested Components:

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- (4) Red plastic (Colorant #Y0123).
- (5) White plastic (Colorant #Y0136).
- (6) Deep blue plastic (Colorant #Y0192).
- (7) Silver color plastic (Colorant #Y0207).
- (8) Dull blue plastic (Colorant #Y0320).
- (9) Light tan color plastic (Colorant #Y0345).
- (10) Deep purple plastic (Colorant #Y0352).
- (11) Dark grey plastic (Colorant #Y0353).
- (12) Dark green plastic (Colorant #Y0354).
- (13) Orange plastic (Colorant #Y0355).
- (14) Deep blue plastic (Colorant #Y0356).
- (15) Dull orange plastic (Colorant #Y0357).
- (16) Coatings on paper sheet (INX06 - (Herald Instructions)).

Date sample received : Aug 03, 2021, Sep 16, 2021 and Sep 28, 2021

Test Period : Aug 03, 2021 to Oct 05, 2021



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(11) Total Lead (Pb) content

Test Method : Illinois Lead Poisoning Prevention Act 410 ILCS 45, acid digestion method and analysed by Inductively Coupled Argon Plasma Spectrometry.

Coating:

Tested Component	Result in %, w/w	Limit in %, w/w
(16)	<0.0020	0.009

Substrate:

Tested Component	Result in %, w/w	Limit in %, w/w
(1)	<0.0020	0.010
(2)	<0.0020	0.010
(3)	<0.0020	0.010
(4)	<0.0020	0.010
(5)	<0.0020	0.010
(6)	<0.0020	0.010
(7)	<0.0020	0.010
(8)	<0.0020	0.010
(9)	<0.0020	0.010
(10)	<0.0020	0.010
(11)	<0.0020	0.010
(12)	<0.0020	0.010
(13)	<0.0020	0.010
(14)	<0.0020	0.010
(15)	<0.0020	0.010

Warning statement limit for coating = 0.0040%

The above limit was quoted according to Illinois Lead Poisoning Prevention Act 410 ILCS 45.



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- (3) Beige plastic (Resin #X0169).
- (4) Red plastic (Colorant #Y0123).
- (5) White plastic (Colorant #Y0136).
- (6) Deep blue plastic (Colorant #Y0192).
- (7) Silver color plastic (Colorant #Y0207).
- (8) Dull blue plastic (Colorant #Y0320).
- (9) Light tan color plastic (Colorant #Y0345).
- (10) Deep purple plastic (Colorant #Y0352).
- (11) Dark grey plastic (Colorant #Y0353).
- (12) Dark green plastic (Colorant #Y0354).
- (13) Orange plastic (Colorant #Y0355).
- (14) Deep blue plastic (Colorant #Y0356).
- (15) Dull orange plastic (Colorant #Y0357).
- (16) Coatings on paper sheet (INX06 - (Herald Instructions)).

Date sample received : Aug 03, 2021, Sep 16, 2021 and Sep 28, 2021

Test Period : Aug 03, 2021 to Oct 05, 2021



TEST REPORT

Number : HKGH02787105

(12) Phthalate Content Test

Test Method : Standard Operating Procedure for Determining Phthalates, test method CPSC-CH-C1001-09.4 was used and phthalate content was determined by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Compound	Result (% w/w)			Limit (% w/w)
	(1)	(2)	(3)	
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01	0.1
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	<0.01	0.1
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01	0.1
Diisononyl phthalate (DINP)	<0.015	<0.015	<0.015	0.1
Diisobutyl phthalate (DIBP)	<0.01	<0.01	<0.01	0.1
Di-n-pentyl phthalate (DPP) / (DPENP)	<0.01	<0.01	<0.01	0.1
Di-n-hexyl phthalate (DNHP) / (DHEXP)	<0.01	<0.01	<0.01	0.1
Dicyclohexyl phthalate (DCHP)	<0.01	<0.01	<0.01	0.1

Compound	Result (% w/w)			Limit (% w/w)
	(4)	(5)	(6)	
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01	0.1
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	<0.01	0.1
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01	0.1
Diisononyl phthalate (DINP)	<0.015	<0.015	<0.015	0.1
Diisobutyl phthalate (DIBP)	<0.01	<0.01	<0.01	0.1
Di-n-pentyl phthalate (DPP) / (DPENP)	<0.01	<0.01	<0.01	0.1
Di-n-hexyl phthalate (DNHP) / (DHEXP)	<0.01	<0.01	<0.01	0.1
Dicyclohexyl phthalate (DCHP)	<0.01	<0.01	<0.01	0.1



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Compound	Result (% w/w)			Limit (% w/w)
	(7)	(8)	(9)	
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01	0.1
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	<0.01	0.1
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01	0.1
Diisononyl phthalate (DINP)	<0.015	<0.015	<0.015	0.1
Diisobutyl phthalate (DIBP)	<0.01	<0.01	<0.01	0.1
Di-n-pentyl phthalate (DPP) / (DPENP)	<0.01	<0.01	<0.01	0.1
Di-n-hexyl phthalate (DNHP) / (DHEXP)	<0.01	<0.01	<0.01	0.1
Dicyclohexyl phthalate (DCHP)	<0.01	<0.01	<0.01	0.1

Compound	Result (% w/w)			Limit (% w/w)
	(10)	(11)	(12)	
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01	0.1
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	<0.01	0.1
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01	0.1
Diisononyl phthalate (DINP)	<0.015	<0.015	<0.015	0.1
Diisobutyl phthalate (DIBP)	<0.01	<0.01	<0.01	0.1
Di-n-pentyl phthalate (DPP) / (DPENP)	<0.01	<0.01	<0.01	0.1
Di-n-hexyl phthalate (DNHP) / (DHEXP)	<0.01	<0.01	<0.01	0.1
Dicyclohexyl phthalate (DCHP)	<0.01	<0.01	<0.01	0.1

Compound	Result (% w/w)			Limit (% w/w)
	(13)	(14)	(15)	
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01	0.1
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	<0.01	0.1
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01	0.1
Diisononyl phthalate (DINP)	<0.015	<0.015	<0.015	0.1
Diisobutyl phthalate (DIBP)	<0.01	<0.01	<0.01	0.1
Di-n-pentyl phthalate (DPP) / (DPENP)	<0.01	<0.01	<0.01	0.1
Di-n-hexyl phthalate (DNHP) / (DHEXP)	<0.01	<0.01	<0.01	0.1
Dicyclohexyl phthalate (DCHP)	<0.01	<0.01	<0.01	0.1



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Compound	Result (% w/w)	Limit (% w/w)
	(16)	
Dibutyl phthalate (DBP)	<0.01	0.1
Diethyl hexyl phthalate (DEHP)	<0.01	0.1
Benzyl butyl phthalate (BBP)	<0.01	0.1
Diisononyl phthalate (DINP)	<0.015	0.1
Diisobutyl phthalate (DIBP)	<0.01	0.1
Di-n-pentyl phthalate (DPP) / (DPENP)	<0.01	0.1
Di-n-hexyl phthalate (DNHP) / (DHEXP)	<0.01	0.1
Dicyclohexyl phthalate (DCHP)	<0.01	0.1

The above limits are quoted from Federal Register, Vol. 82, No. 207, October 27, 2017, Rules and Regulations, Final rule for 16 CFR Part 1307 "Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates" effective from April 25, 2018.

Tested Components:

- (1) Translucent white plastic (Resin #X0018).
- (2) White plastic (Resin #X0052).
- (3) Beige plastic (Resin #X0169).
- (4) Red plastic (Colorant #Y0123).
- (5) White plastic (Colorant #Y0136).
- (6) Deep blue plastic (Colorant #Y0192).
- (7) Silver color plastic (Colorant #Y0207).
- (8) Dull blue plastic (Colorant #Y0320).
- (9) Light tan color plastic (Colorant #Y0345).
- (10) Deep purple plastic (Colorant #Y0352).
- (11) Dark grey plastic (Colorant #Y0353).
- (12) Dark green plastic (Colorant #Y0354).
- (13) Orange plastic (Colorant #Y0355).
- (14) Deep blue plastic (Colorant #Y0356).
- (15) Dull orange plastic (Colorant #Y0357).
- (16) Coatings on paper sheet (INX06 - (Herald Instructions)).

Date sample received : Aug 03, 2021 and Sep 16, 2021
Test Period : Aug 03, 2021 to Sep 24, 2021



TEST REPORT

Number : HKGH02787105

(13) Phthalate Content Test

Test Method : Standard Operating Procedure for Determining Phthalates, test method CPSC-CH-C1001-09.4 was used and phthalate content was determined by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Three Phthalate content:

Compound	Result (% w/w)			Limit (% w/w)
	(1)	(2)	(3)	
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01	0.1
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	<0.01	0.1
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01	0.1

Compound	Result (% w/w)			Limit (% w/w)
	(4)	(5)	(6)	
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01	0.1
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	<0.01	0.1
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01	0.1

Compound	Result (% w/w)			Limit (% w/w)
	(7)	(8)	(9)	
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01	0.1
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	<0.01	0.1
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01	0.1

Compound	Result (% w/w)			Limit (% w/w)
	(10)	(11)	(12)	
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01	0.1
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	<0.01	0.1
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01	0.1



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Compound	Result (% w/w)			Limit (% w/w)
	(13)	(14)	(15)	
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01	0.1
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	<0.01	0.1
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01	0.1

Compound	Result (% w/w)	Limit (% w/w)
	(16)	
Dibutyl phthalate (DBP)	<0.01	0.1
Diethyl hexyl phthalate (DEHP)	<0.01	0.1
Benzyl butyl phthalate (BBP)	<0.01	0.1

The above limit was quoted according to California Health and Safety Code, Part 3 of Division 104, Chapter 11 prohibiting the sales of toys and child care articles made with phthalates (AB1108).

Tested Components:

- (1) Translucent white plastic (Resin #X0018).
- (2) White plastic (Resin #X0052).
- (3) Beige plastic (Resin #X0169).
- (4) Red plastic (Colorant #Y0123).
- (5) White plastic (Colorant #Y0136).
- (6) Deep blue plastic (Colorant #Y0192).
- (7) Silver color plastic (Colorant #Y0207).
- (8) Dull blue plastic (Colorant #Y0320).
- (9) Light tan color plastic (Colorant #Y0345).
- (10) Deep purple plastic (Colorant #Y0352).
- (11) Dark grey plastic (Colorant #Y0353).
- (12) Dark green plastic (Colorant #Y0354).
- (13) Orange plastic (Colorant #Y0355).
- (14) Deep blue plastic (Colorant #Y0356).
- (15) Dull orange plastic (Colorant #Y0357).
- (16) Coatings on paper sheet (INX06 - (Herald Instructions)).

Date sample received : Aug 03, 2021 and Sep 16, 2021

Test Period : Aug 03, 2021 to Sep 24, 2021



TEST REPORT

Number : HKGH02787105

(14) Phthalate Content Test

Test Method : Solvent extraction and Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Compound	Result (% w/w)			Limit (% w/w)
	(1)	(2)	(3)	
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01	0.1
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	<0.01	0.1
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01	0.1
Diisodecyl phthalate (DIDP)	<0.01	<0.01	<0.01	0.1
Di-n-hexyl phthalate (DNHP)	<0.01	<0.01	<0.01	0.1
Diisononyl phthalate (DINP)	<0.01	<0.01	<0.01	--

Compound	Result (% w/w)			Limit (% w/w)
	(4)	(5)	(6)	
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01	0.1
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	<0.01	0.1
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01	0.1
Diisodecyl phthalate (DIDP)	<0.01	<0.01	<0.01	0.1
Di-n-hexyl phthalate (DNHP)	<0.01	<0.01	<0.01	0.1
Diisononyl phthalate (DINP)	<0.01	<0.01	<0.01	--

Compound	Result (% w/w)			Limit (% w/w)
	(7)	(8)	(9)	
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01	0.1
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	<0.01	0.1
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01	0.1
Diisodecyl phthalate (DIDP)	<0.01	<0.01	<0.01	0.1
Di-n-hexyl phthalate (DNHP)	<0.01	<0.01	<0.01	0.1
Diisononyl phthalate (DINP)	<0.01	<0.01	<0.01	--



TEST REPORT

Number : HKGH02787105

Compound	Result (% w/w)			Limit (% w/w)
	(10)	(11)	(12)	
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01	0.1
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	<0.01	0.1
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01	0.1
Diisodecyl phthalate (DIDP)	<0.01	<0.01	<0.01	0.1
Di-n-hexyl phthalate (DNHP)	<0.01	<0.01	<0.01	0.1
Diisononyl phthalate (DINP)	<0.01	<0.01	<0.01	--

Compound	Result (% w/w)			Limit (% w/w)
	(13)	(14)	(15)	
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01	0.1
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	<0.01	0.1
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01	0.1
Diisodecyl phthalate (DIDP)	<0.01	<0.01	<0.01	0.1
Di-n-hexyl phthalate (DNHP)	<0.01	<0.01	<0.01	0.1
Diisononyl phthalate (DINP)	<0.01	<0.01	<0.01	--

Compound	Result (% w/w)	Limit (% w/w)
	(16)	
Dibutyl phthalate (DBP)	<0.01	0.1
Diethyl hexyl phthalate (DEHP)	<0.01	0.1
Benzyl butyl phthalate (BBP)	<0.01	0.1
Diisodecyl phthalate (DIDP)	<0.01	0.1
Di-n-hexyl phthalate (DNHP)	<0.01	0.1
Diisononyl phthalate (DINP)	<0.01	--

The above limit was quoted from the Consent Judgment no. BG-350969 settled by superior court of the state of California for the county of Alameda, for Toys (designed for or reasonable used by children under six years of age) set based on the California Proposition 65.



TEST REPORT

Number : HKGH02787105

Tested Components:

- (1) Translucent white plastic (Resin #X0018).
- (2) White plastic (Resin #X0052).
- (3) Beige plastic (Resin #X0169).
- (4) Red plastic (Colorant #Y0123).
- (5) White plastic (Colorant #Y0136).
- (6) Deep blue plastic (Colorant #Y0192).
- (7) Silver color plastic (Colorant #Y0207).
- (8) Dull blue plastic (Colorant #Y0320).
- (9) Light tan color plastic (Colorant #Y0345).
- (10) Deep purple plastic (Colorant #Y0352).
- (11) Dark grey plastic (Colorant #Y0353).
- (12) Dark green plastic (Colorant #Y0354).
- (13) Orange plastic (Colorant #Y0355).
- (14) Deep blue plastic (Colorant #Y0356).
- (15) Dull orange plastic (Colorant #Y0357).
- (16) Coatings on paper sheet (INX06 - (Herald Instructions)).

Date sample received : Aug 03, 2021 and Sep 16, 2021

Test Period : Aug 03, 2021 to Sep 24, 2021



TEST REPORT

Number : HKGH02787105

(15) Labeling Review for Toys

Evaluation	Criteria	Results Pass/ Fail																		
USA																				
Uniform Packaging And Labeling Act 16 CFR 500 Fair Packaging and Labeling Act	Manufacturer, packer, or distributor name & address: City, state & zip Product identification Net contents/US & metric/location/font size Minimum height of number and letter <table border="0" style="width: 100%;"> <tr> <td style="text-align: center;">Area of principal display panel</td> <td style="text-align: center;">printed</td> <td style="text-align: center;">molded</td> </tr> <tr> <td><32 cm² (5 in²)</td> <td>1.6 mm (1/16in)</td> <td>3.2 mm (1/8in)</td> </tr> <tr> <td>>32 cm² but <161 cm² (25 in²)</td> <td>3.2 mm (1/8in)</td> <td>4.8 mm (3/16in)</td> </tr> <tr> <td>>161 cm² but <645 cm² (100 in²)</td> <td>4.8 mm (3/16in)</td> <td>6.4 mm (1/4 in)</td> </tr> <tr> <td>>645 cm² but <25.8 dm² (400in²)</td> <td>6.4 mm (1/4 in)</td> <td>7.9 mm (5/16in)</td> </tr> <tr> <td>>25.8 dm² (400in²)</td> <td>12.7 mm (1/2 in)</td> <td>14.3 mm (9/16 in)</td> </tr> </table> "Regulations under section 4 of the Fair Packaging and Labeling Act" Only for non toy and toys or components of toys that are meant to be used-up and are not an exemption. (i.e. art materials)	Area of principal display panel	printed	molded	<32 cm ² (5 in ²)	1.6 mm (1/16in)	3.2 mm (1/8in)	>32 cm ² but <161 cm ² (25 in ²)	3.2 mm (1/8in)	4.8 mm (3/16in)	>161 cm ² but <645 cm ² (100 in ²)	4.8 mm (3/16in)	6.4 mm (1/4 in)	>645 cm ² but <25.8 dm ² (400in ²)	6.4 mm (1/4 in)	7.9 mm (5/16in)	>25.8 dm ² (400in ²)	12.7 mm (1/2 in)	14.3 mm (9/16 in)	P
Area of principal display panel	printed	molded																		
<32 cm ² (5 in ²)	1.6 mm (1/16in)	3.2 mm (1/8in)																		
>32 cm ² but <161 cm ² (25 in ²)	3.2 mm (1/8in)	4.8 mm (3/16in)																		
>161 cm ² but <645 cm ² (100 in ²)	4.8 mm (3/16in)	6.4 mm (1/4 in)																		
>645 cm ² but <25.8 dm ² (400in ²)	6.4 mm (1/4 in)	7.9 mm (5/16in)																		
>25.8 dm ² (400in ²)	12.7 mm (1/2 in)	14.3 mm (9/16 in)																		
USA Country Of Origin 19 CFR 134.11	Shall be marked with the country of origin when imported into the U.S. in a conspicuous place to indicate to the ultimate purchaser in the U.S., the English name of the country of origin. <ul style="list-style-type: none"> • All individually packaged items shall contain the country of origin • All items shipped in bulk or displayed in bulk must contain the country of origin 	P																		
Stuffed Toy Labeling PA / MA / OH Stuffed Toy Law	Stuffing toys shall have a tab or label securely affixed which containing the following information, which shall be clearly legible and in sufficient size: <ul style="list-style-type: none"> • A statement that "All New Material" was used present / absent • Type of material present / absent • The assigned state registration number (PA at a minimum) present / absent • Filling material shall be designated by its generic term (47.311). present / absent Material claim on label = Material inside product =	NA																		

Date sample received : Jun 01, 2021
 Testing period : Jun 01, 2021 to Jun 07, 2021



TEST REPORT

Number : HKGH02787105

(16) Celluloid or Cellulose Nitrate

Test Standard : Canada Consumer Product Safety Act Toys Regulations SOR/2011-17 (last amended on 11 January 2019) section 21

	<u>Assessment</u>	<u>Requirements</u>
Cellulose Nitrate / Celluloid	Absent	Absent

Date sample received : Jun 01, 2021
 Test Period : Jun 01, 2021 to Jun 07, 2021

(17) Physical and Mechanical Tests

Test Standard : Canada Consumer Product Safety Act Toys Regulations SOR/2011-17 (last amended on 11 January 2019)

Age group for testing : For Ages Over 8 Years

The submitted samples were undergone the use and abuse tests in accordance with the Canada Consumer Product Safety Act Toys Regulations SOR/2011-17 (last amended on 11 January 2019):	
<u>Test</u>	<u>Parameter</u>
Drop test	4 x (0.909 +/- 0.005) m
Pull test	42.5 +/- 2 N
Push test	42.5 +/- 2 N

<u>Clause</u>	<u>Requirement</u>	<u>Assessment</u>
3	General - English and French Bilingual Statement	P
4	Packaging	P
5	Electrically operated toys	NA
6	Electrically heated toys	NA
7	Small parts	NA
8	Metal edges	NA
9	Wire Frames	NA
10	Plastic Edges	P



TEST REPORT

Number : HKGH02787105

Clause	Requirement	Assessment
11	Wooden Surfaces, Edges and Corners	NA
12	Glass	NA
13	Fasteners	NA
14	Folding Mechanisms, Bracket or Bracing	NA
15	Spring-Wound Driving Mechanism	NA
16	Projectile Components	NA
17	Toys which a child can enter and which can be closed by a lid or door	NA
18	Stationary toy that is intended to bear the weight of a child	NA
19	Noise limit	NA
20	Heated surfaces, parts or substances	NA
28	Fastening to attach parts, Clothing or Ornamentation	NA
29	Stuffing Materials	NA
	(a) Clean and free from vermin	NA
	(b) Free from Hard and Sharp Foreign Matter	NA
30	Small parts - Squeaker, Reed, Valve or other similar device	NA
31	Eyes or nose	NA
35	Plant seeds for making noise	NA
36	Plant seeds for stuffing material	NA
37	Pull and Push Toys that has a shaft-like handle	NA
38	Toy Steam Engines Boilers	NA
39	Finger Paints	NA
40	Rattle	NA
41	Elastic	NA
42	Yo-Yo Type Balls	NA
	(a) Stretchable cord	NA
	(b) Similar product	NA
43	Magnetic toys	NA
44	Warning of magnetic toys	NA

Abbreviation : P = Pass NA = Not Applicable

Date sample received : Jun 01, 2021
Test Period : Jun 01, 2021 to Jun 07, 2021



TEST REPORT

Number : HKGH02787105

(18) Toxic Elements Analysis

Test Method : In house method(TC003.TP), microwave digestion and total Pb content determined by ICP-OES.(TC003.TP) and Health Canada Product Safety Laboratory Reference Manual Book 5-Laboratory Policies and Procedures Part B:Test Methods Section, Method C03. (with modifications by direct analysis using ICP-OES after filtration of leachate), determination of leachable As, Se, Cd, Sb and Ba in applied coating (2014-02-20). In house method(TC066.TP), microwave digestion and total Hg content determined by ICP-MS.

	Result (%, w/w)	Limit (%, w/w)
	(1)	
Total Lead (Pb)	<0.001	0.009
Total Mercury (Hg)	ND	ND
Sol. Cadmium (Cd)	<0.001	0.100
Sol. Antimony (Sb)	<0.001	0.100
Sol. Selenium (Se)	<0.001	0.100
Sol. Arsenic (As)	<0.001	0.100
Sol. Barium (Ba)	<0.001	0.100

Sol. : Soluble

ND : Not detected

Detection limit : 0.0000078 (%, w/w)

The above limit was quoted according to Canada Consumer Product Safety Act Toys Regulations SOR/2011-17 section 23 with amendments SOR/2016-195.

Tested Component:

(1) Coatings on paper sheet (INX06 - (Herald Instructions)).

Date sample received : Aug 03, 2021, Sep 16, 2021 and Sep 28, 2021

Test Period : Aug 03, 2021 to Oct 05, 2021



TEST REPORT

Number : HKGH02787105

(19) Total Lead (Pb) Content

Test Standard : Acid digestion method was used and Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

Tested Component	Result in mg/kg	Limit in mg/kg
(1)	<20	90
(2)	<20	90
(3)	<20	90
(4)	<20	90
(5)	<20	90
(6)	<20	90
(7)	<20	90
(8)	<20	90
(9)	<20	90
(10)	<20	90
(11)	<20	90
(12)	<20	90
(13)	<20	90
(14)	<20	90
(15)	<20	90
(16)	<20	90
(17)	<20	90
(18)	<20	90

The above limit was quoted according to Canada Consumer Product Safety Act Toys Regulations SOR/2018-83.

mg/kg = milligram per kilogram



TEST REPORT

Number : HKGH02787105

Tested Components:

- (1) Translucent white plastic (Resin #X0018).
- (2) White plastic (Resin #X0052).
- (3) Beige plastic (Resin #X0169).
- (4) Red plastic (Colorant #Y0123).
- (5) White plastic (Colorant #Y0136).
- (6) Deep blue plastic (Colorant #Y0192).
- (7) Silver color plastic (Colorant #Y0207).
- (8) Dull blue plastic (Colorant #Y0320).
- (9) Light tan color plastic (Colorant #Y0345).
- (10) Deep purple plastic (Colorant #Y0352).
- (11) Dark grey plastic (Colorant #Y0353).
- (12) Dark green plastic (Colorant #Y0354).
- (13) Orange plastic (Colorant #Y0355).
- (14) Deep blue plastic (Colorant #Y0356).
- (15) Dull orange plastic (Colorant #Y0357).
- (16) Coatings on paper sheet (INX06 - (Herald Instructions)).
- (17) Paper sheet excluding coatings (INX06 - (Herald Instructions)).
- (18) White thread (binding of Herald Instructions).

Date sample received : Aug 03, 2021, Sep 16, 2021 and Sep 28, 2021

Test Period : Aug 03, 2021 to Oct 05, 2021



TEST REPORT

Number : HKGH02787105

(20) Total Mercury (Hg) Content

Test Method : Canada Products Containing Mercury Regulations SOR/2014-254, acid digestion method and analysed by Inductively Coupled Argon Plasma Spectrometry.

Tested Component	Result in %, w/w	Limit in %, w/w
(1)	<0.001	0.1
(2)	<0.001	0.1
(3)	<0.001	0.1
(4)	<0.001	0.1
(5)	<0.001	0.1
(6)	<0.001	0.1
(7)	<0.001	0.1
(8)	<0.001	0.1
(9)	<0.001	0.1
(10)	<0.001	0.1
(11)	<0.001	0.1
(12)	<0.001	0.1
(13)	<0.001	0.1
(14)	<0.001	0.1
(15)	<0.001	0.1
(16)	<0.001	0.1
(17)	<0.001	0.1



TEST REPORT

Number : HKGH02787105

Tested Components:

- (1) Translucent white plastic (Resin #X0018).
- (2) White plastic (Resin #X0052).
- (3) Beige plastic (Resin #X0169).
- (4) Red plastic (Colorant #Y0123).
- (5) White plastic (Colorant #Y0136).
- (6) Deep blue plastic (Colorant #Y0192).
- (7) Silver color plastic (Colorant #Y0207).
- (8) Dull blue plastic (Colorant #Y0320).
- (9) Light tan color plastic (Colorant #Y0345).
- (10) Deep purple plastic (Colorant #Y0352).
- (11) Dark grey plastic (Colorant #Y0353).
- (12) Dark green plastic (Colorant #Y0354).
- (13) Orange plastic (Colorant #Y0355).
- (14) Deep blue plastic (Colorant #Y0356).
- (15) Dull orange plastic (Colorant #Y0357).
- (16) Paper sheet excluding coatings (INX06 - (Herald Instructions)).
- (17) White thread (binding of Herald Instructions).

Date sample received : Aug 03, 2021, Sep 16, 2021 and Sep 28, 2021

Test Period : Aug 03, 2021 to Oct 05, 2021



TEST REPORT

Number : HKGH02787105

(21) Lead (Pb) and Mercury (Hg) Content

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

	Result (mg/kg)			Limit (mg/kg)
	(1)	(2)	(3)	
Total Lead (Pb)	<20			90
Total Mercury (Hg)	ND			10

ND : Not Detected (<10mg/kg)

mg/kg = milligram per kilogram

Tested Component:

(1) Coatings on paper sheet (INX06 - (Herald Instructions)).

Date sample received : Aug 03, 2021, Sep 16, 2021 and Sep 28, 2021

Test Period : Aug 03, 2021 to Oct 05, 2021

(22) Phthalate Content Test

Test Method : Standard Operating Procedure for Determining Phthalates, test method CPSC-CH-C1001-09.4 was used and phthalate content was determined by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Six Phthalate content:

Compound	Result (ppm)			Limit (ppm)
	(1)	(2)	(3)	
Dibutyl phthalate (DBP)	<100	<100	<100	1000
Diethyl hexyl phthalate (DEHP)	<100	<100	<100	1000
Benzyl butyl phthalate (BBP)	<100	<100	<100	1000
Diisononyl phthalate (DINP)	<150	<150	<150	1000
Di-n-octyl phthalate (DnOP)	<100	<100	<100	1000
Diisodecyl phthalate (DIDP)	<100	<100	<100	1000



TEST REPORT

Number : HKGH02787105

Compound	Result (ppm)			Limit (ppm)
	(4)	(5)	(6)	
Dibutyl phthalate (DBP)	<100	<100	<100	1000
Diethyl hexyl phthalate (DEHP)	<100	<100	<100	1000
Benzyl butyl phthalate (BBP)	<100	<100	<100	1000
Diisononyl phthalate (DINP)	<150	<150	<150	1000
Di-n-octyl phthalate (DnOP)	<100	<100	<100	1000
Diisodecyl phthalate (DIDP)	<100	<100	<100	1000

Compound	Result (ppm)			Limit (ppm)
	(7)	(8)	(9)	
Dibutyl phthalate (DBP)	<100	<100	<100	1000
Diethyl hexyl phthalate (DEHP)	<100	<100	<100	1000
Benzyl butyl phthalate (BBP)	<100	<100	<100	1000
Diisononyl phthalate (DINP)	<150	<150	<150	1000
Di-n-octyl phthalate (DnOP)	<100	<100	<100	1000
Diisodecyl phthalate (DIDP)	<100	<100	<100	1000

Compound	Result (ppm)			Limit (ppm)
	(10)	(11)	(12)	
Dibutyl phthalate (DBP)	<100	<100	<100	1000
Diethyl hexyl phthalate (DEHP)	<100	<100	<100	1000
Benzyl butyl phthalate (BBP)	<100	<100	<100	1000
Diisononyl phthalate (DINP)	<150	<150	<150	1000
Di-n-octyl phthalate (DnOP)	<100	<100	<100	1000
Diisodecyl phthalate (DIDP)	<100	<100	<100	1000

Compound	Result (ppm)			Limit (ppm)
	(13)	(14)	(15)	
Dibutyl phthalate (DBP)	<100	<100	<100	1000
Diethyl hexyl phthalate (DEHP)	<100	<100	<100	1000
Benzyl butyl phthalate (BBP)	<100	<100	<100	1000
Diisononyl phthalate (DINP)	<150	<150	<150	1000
Di-n-octyl phthalate (DnOP)	<100	<100	<100	1000
Diisodecyl phthalate (DIDP)	<100	<100	<100	1000



TEST REPORT

Number : HKGH02787105

Compound	Result (ppm)	Limit (ppm)
	(16)	
Dibutyl phthalate (DBP)	<100	1000
Diethyl hexyl phthalate (DEHP)	<100	1000
Benzyl butyl phthalate (BBP)	<100	1000
Diisononyl phthalate (DINP)	<150	1000
Di-n-octyl phthalate (DnOP)	<100	1000
Diisodecyl phthalate (DIDP)	<100	1000

The above limit was quoted according to Phthalates Regulations SOR/2016-188 Section 2 & 3(1) for phthalate content in toys and child care articles.

ppm = parts per million = mg/kg

Tested Components:

- (1) Translucent white plastic (Resin #X0018).
- (2) White plastic (Resin #X0052).
- (3) Beige plastic (Resin #X0169).
- (4) Red plastic (Colorant #Y0123).
- (5) White plastic (Colorant #Y0136).
- (6) Deep blue plastic (Colorant #Y0192).
- (7) Silver color plastic (Colorant #Y0207).
- (8) Dull blue plastic (Colorant #Y0320).
- (9) Light tan color plastic (Colorant #Y0345).
- (10) Deep purple plastic (Colorant #Y0352).
- (11) Dark grey plastic (Colorant #Y0353).
- (12) Dark green plastic (Colorant #Y0354).
- (13) Orange plastic (Colorant #Y0355).
- (14) Deep blue plastic (Colorant #Y0356).
- (15) Dull orange plastic (Colorant #Y0357).
- (16) Coatings on paper sheet (INX06 - (Herald Instructions)).

Date sample received : Aug 03, 2021 and Sep 16, 2021

Test Period : Aug 03, 2021 to Sep 24, 2021



TEST REPORT

Number : HKGH02787105

(23) Labeling review – Canada

Evaluation	Citation / Method	Result	Verdict
Country: Canada			
Official language of label information: English and French			
1. Marking of Product identity / description	Consumer Packaging and Labelling Act and Regulations (C.R.C. c417, with amendment)	Present	Pass
2. Marking of Name and address of dealer	Consumer Packaging and Labelling Act and Regulations (C.R.C. c417, with amendment)	Present	Pass
3. Net quantity in correct unit	Consumer Packaging and Labelling Act and Regulations (C.R.C. c417, with amendment)	Present	Pass
4. Language of Warnings, cautions, Instruction of use, where applicable	The Charter of French Language, Title I, Chapter VII, Clause 51 (Quebec)	Present	Pass
5. Format of Upholstered and Stuffed Article Label	Quebec Regulation Respecting Stuffing and Upholstered and Stuffed Articles	Not applicable	Not applicable
6. Country of origin marking	Canada Customs Tariff, Marking of Imported Goods Regulations, SOR/94-16	Present	Pass

Date sample received : Jun 01, 2021
 Review period : Jun 01, 2021 to Jun 07, 2021



TEST REPORT

Number : HKGH02787105

(24) 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 8 Years

<u>Clause</u>	<u>Requirement</u>	<u>Assessment</u>
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



TEST REPORT

Number : HKGH02787105

Clause	Requirement	Assessment
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	P



TEST REPORT

Number : HKGH02787105

Clause	Requirement	Assessment
7	Warnings, markings and instructions for use	
7.1	General	P
7.2	Toys not intended for children under 36 months	P
7.3	Latex balloons	NA
7.4	Aquatic toys	NA
7.5	Functional toys	NA
7.6	Hazardous sharp functional edges and points	NA
7.7	Projectile Toys	NA
7.8	Imitation protective masks and helmets	NA
7.9	Toy kites	NA
7.10	Roller skates, inline skates, skateboards and certain other ride-on toys	NA
7.11	Toys intended to be attached to or strung across a cradle, cot, or perambulator	NA
7.12	Liquid-filled teethingers	NA
7.13	Percussion caps specifically designed for use in toys	NA
7.14	Acoustics	NA
7.15	Toy bicycles	NA
7.16	Toys intended to bear the mass of a child	NA
7.17	Toys comprising monofilament fibres	NA
7.18	Toy scooters	NA
7.19	Rocking horses and similar toys	NA
7.20	Magnetic / electrical experimental sets	NA
7.21	Toys with electrical cables exceeding 300 mm in length	NA
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months	NA
7.23	Toys intended to be attached to a cradle, cot or perambulator	NA
7.24	Sledges with cords for pulling	NA
7.25	Flying toys	NA
7.26	Improvised projectiles	NA

Abbreviation : P = Pass NA = Not Applicable



TEST REPORT

Number : HKGH02787105

Below are additional information according to the Toy Safety Directive 2009/48/EC requirement. These information also appears as a note within the EN71 but are not standard requirements and not accredited:

Marking

The manufacturer's and importer's name, registered trade name or registered trademark, the address and type, batch, serial or model number or other element allowing their identification shall be indicated on the product itself. In addition, toys or packagings shall also bear the CE-marking. After checking, it was found that

	Toy	Packaging
Manufacturer's name	Present	Present
Manufacturer's address	Present	Present
Importer's name	Present	Present
Importer's address	Present	Present
Product identification code	Present	Present
CE-marking	Absent	Present

Below is additional information checking according to the UK Toy (Safety) Regulations requirement. The checking is not within accreditation scope.

Marking

The manufacturer's and importer's name, registered trade name or registered trademark, the address and type, batch, serial or model number or other element allowing their identification shall be indicated on the product itself.

	Toy	Packaging
Name of authorised representative in Great Britain	Present	Present
Address of authorised representative in Great Britain	Present	Present
Product identification code	Present	Present

With reference to the guidance of using UKCA marking from 1 January 2021 by the Department for Business, Energy and Industrial Strategy published on 1 September 2020, toys or packagings shall also bear the UKCA marking.

After checking, it was found that

	Toy	Packaging
UKCA marking	Absent	Present

Date sample received : Jun 01, 2021
 Test Period : Jun 01, 2021 to Jun 07, 2021



TEST REPORT

Number : HKGH02787105

(25) 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 : Jun 01, 2021
Test Period : Jun 01, 2021 to Jun 07, 2021

(26) 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 : Jun 01, 2021
Test Period : Jun 01, 2021 to Jun 07, 2021



TEST REPORT

Number : HKGH02787105

(27) 19 Toxic Element Migration Test

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



TEST REPORT

Number : HKGH02787105

	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)	80	43	<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



TEST REPORT

Number : HKGH02787105

	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	51	64	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



TEST REPORT

Number : HKGH02787105

	Result (mg/kg)			Limit (mg/kg)
	(10)	(11)	(12)	
Soluble Aluminium (Al)	<300	<300	<300	28130
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	62	75	<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



TEST REPORT

Number : HKGH02787105

	Result (mg/kg)			Limit (mg/kg)
	(13)	(14)	(15)	
Soluble Aluminium (Al)	<300	<300	<300	28130
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	70	46	61	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



TEST REPORT

Number : HKGH02787105

	Result (mg/kg)		Limit (mg/kg)
	(16)	(17)	
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
Soluble Mercury (Hg)	<10	<10	94
Soluble Nickel (Ni)	<10	<10	930
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.



TEST REPORT

Number : HKGH02787105

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) .

Tested Components:

- (1) Translucent white plastic (Resin #X0018).
- (2) White plastic (Resin #X0052).
- (3) Beige plastic (Resin #X0169).
- (4) Red plastic (Colorant #Y0123).
- (5) White plastic (Colorant #Y0136).
- (6) Deep blue plastic (Colorant #Y0192).
- (7) Silver color plastic (Colorant #Y0207).
- (8) Dull blue plastic (Colorant #Y0320).
- (9) Light tan color plastic (Colorant #Y0345).
- (10) Deep purple plastic (Colorant #Y0352).
- (11) Dark grey plastic (Colorant #Y0353).
- (12) Dark green plastic (Colorant #Y0354).
- (13) Orange plastic (Colorant #Y0355).
- (14) Deep blue plastic (Colorant #Y0356).
- (15) Dull orange plastic (Colorant #Y0357).
- (16) Paper sheet with coatings (INX06 - (Herald Instructions)).
- (17) White thread (binding of Herald Instructions).

Date sample received : Aug 03, 2021, Sep 16, 2021 and Sep 28, 2021

Test Period : Aug 03, 2021 to Oct 05, 2021



TEST REPORT

Number : HKGH02787105

(28) 19 Toxic Element Migration Test

Test Method : BS EN 71-3 : 2019 + A1 : 2021. 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



TEST REPORT

Number : HKGH02787105

	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)	80	43	<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



TEST REPORT

Number : HKGH02787105

	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	51	64	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



TEST REPORT

Number : HKGH02787105

	Result (mg/kg)			Limit (mg/kg)
	(10)	(11)	(12)	
Soluble Aluminium (Al)	<300	<300	<300	28130
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	62	75	<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



TEST REPORT

Number : HKGH02787105

	Result (mg/kg)			Limit (mg/kg)
	(13)	(14)	(15)	
Soluble Aluminium (Al)	<300	<300	<300	28130
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	70	46	61	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



TEST REPORT

Number : HKGH02787105

	Result (mg/kg)		Limit (mg/kg)
	(16)	(17)	
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
Soluble Mercury (Hg)	<10	<10	94
Soluble Nickel (Ni)	<10	<10	930
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.



TEST REPORT

Number : HKGH02787105

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) .

Tested Components:

- (1) Translucent white plastic (Resin #X0018).
- (2) White plastic (Resin #X0052).
- (3) Beige plastic (Resin #X0169).
- (4) Red plastic (Colorant #Y0123).
- (5) White plastic (Colorant #Y0136).
- (6) Deep blue plastic (Colorant #Y0192).
- (7) Silver color plastic (Colorant #Y0207).
- (8) Dull blue plastic (Colorant #Y0320).
- (9) Light tan color plastic (Colorant #Y0345).
- (10) Deep purple plastic (Colorant #Y0352).
- (11) Dark grey plastic (Colorant #Y0353).
- (12) Dark green plastic (Colorant #Y0354).
- (13) Orange plastic (Colorant #Y0355).
- (14) Deep blue plastic (Colorant #Y0356).
- (15) Dull orange plastic (Colorant #Y0357).
- (16) Paper sheet with coatings (INX06 - (Herald Instructions)).
- (17) White thread (binding of Herald Instructions).

Date sample received : Aug 03, 2021, Sep 16, 2021 and Sep 28, 2021

Test Period : Aug 03, 2021 to Oct 05, 2021



TEST REPORT

Number : HKGH02787105

(29) 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	70000 / 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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	Result (mg/kg)			Limit (mg/kg)
	(4)	(5)	(6)	
Soluble Aluminium (Al)	<300	<300	<300	70000 / 28130^
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	80	43	<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



TEST REPORT

Number : HKGH02787105

	Result (mg/kg)			Limit (mg/kg)
	(7)	(8)	(9)	
Soluble Aluminium (Al)	<300	<300	<300	70000 / 28130^
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	51	64	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



TEST REPORT

Number : HKGH02787105

	Result (mg/kg)			Limit (mg/kg)
	(10)	(11)	(12)	
Soluble Aluminium (Al)	<300	<300	<300	70000 / 28130^
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	62	75	<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



TEST REPORT

Number : HKGH02787105

	Result (mg/kg)			Limit (mg/kg)
	(13)	(14)	(15)	
Soluble Aluminium (Al)	<300	<300	<300	70000 / 28130^
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	70	46	61	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



TEST REPORT

Number : HKGH02787105

	Result (mg/kg)		Limit (mg/kg)
	(16)	(17)	
Soluble Aluminium (Al)	<300	<300	70000 / 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
Soluble Mercury (Hg)	<10	<10	94
Soluble Nickel (Ni)	<10	<10	930
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.



TEST REPORT

Number : HKGH02787105

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) .

^ : The new aluminium migration limit [2250mg/kg for Category (I), 560mg/kg for category (II) and 28130mg/kg for Category (III)] was quoted from directive (EU) 2019/1922 amending 2009/48/EC effective from 20 May 2021.

Tested Components:

- (1) Translucent white plastic (Resin #X0018).
- (2) White plastic (Resin #X0052).
- (3) Beige plastic (Resin #X0169).
- (4) Red plastic (Colorant #Y0123).
- (5) White plastic (Colorant #Y0136).
- (6) Deep blue plastic (Colorant #Y0192).
- (7) Silver color plastic (Colorant #Y0207).
- (8) Dull blue plastic (Colorant #Y0320).
- (9) Light tan color plastic (Colorant #Y0345).
- (10) Deep purple plastic (Colorant #Y0352).
- (11) Dark grey plastic (Colorant #Y0353).
- (12) Dark green plastic (Colorant #Y0354).
- (13) Orange plastic (Colorant #Y0355).
- (14) Deep blue plastic (Colorant #Y0356).
- (15) Dull orange plastic (Colorant #Y0357).
- (16) Paper sheet with coatings (INX06 - (Herald Instructions)).
- (17) White thread (binding of Herald Instructions).

Date sample received : Aug 03, 2021, Sep 16, 2021 and Sep 28, 2021

Test Period : Aug 03, 2021 to Oct 05, 2021



TEST REPORT

Number : HKGH02787105

(30) 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	70000 / 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



TEST REPORT

Number : HKGH02787105

	Result (mg/kg)			Limit (mg/kg)
	(4)	(5)	(6)	
Soluble Aluminium (Al)	<300	<300	<300	70000 / 28130^
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	80	43	<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



TEST REPORT

Number : HKGH02787105

	Result (mg/kg)			Limit (mg/kg)
	(7)	(8)	(9)	
Soluble Aluminium (Al)	<300	<300	<300	70000 / 28130^
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	51	64	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



TEST REPORT

Number : HKGH02787105

	Result (mg/kg)			Limit (mg/kg)
	(10)	(11)	(12)	
Soluble Aluminium (Al)	<300	<300	<300	70000 / 28130^
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	62	75	<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



TEST REPORT

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	Result (mg/kg)			Limit (mg/kg)
	(13)	(14)	(15)	
Soluble Aluminium (Al)	<300	<300	<300	70000 / 28130^
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	70	46	61	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



TEST REPORT

Number : HKGH02787105

	Result (mg/kg)		Limit (mg/kg)
	(16)	(17)	
Soluble Aluminium (Al)	<300	<300	70000 / 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
Soluble Mercury (Hg)	<10	<10	94
Soluble Nickel (Ni)	<10	<10	930
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.



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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) .

^ : The new aluminium migration limit [2250mg/kg for Category (I), 560mg/kg for category (II) and 28130mg/kg for Category (III)] was quoted from directive (EU) 2019/1922 amending 2009/48/EC effective from 20 May 2021.

Tested Components:

- (1) Translucent white plastic (Resin #X0018).
- (2) White plastic (Resin #X0052).
- (3) Beige plastic (Resin #X0169).
- (4) Red plastic (Colorant #Y0123).
- (5) White plastic (Colorant #Y0136).
- (6) Deep blue plastic (Colorant #Y0192).
- (7) Silver color plastic (Colorant #Y0207).
- (8) Dull blue plastic (Colorant #Y0320).
- (9) Light tan color plastic (Colorant #Y0345).
- (10) Deep purple plastic (Colorant #Y0352).
- (11) Dark grey plastic (Colorant #Y0353).
- (12) Dark green plastic (Colorant #Y0354).
- (13) Orange plastic (Colorant #Y0355).
- (14) Deep blue plastic (Colorant #Y0356).
- (15) Dull orange plastic (Colorant #Y0357).
- (16) Paper sheet with coatings (INX06 - (Herald Instructions)).
- (17) White thread (binding of Herald Instructions).

Date sample received : Aug 03, 2021, Sep 16, 2021 and Sep 28, 2021

Test Period : Aug 03, 2021 to Oct 05, 2021



TEST REPORT

Number : HKGH02787105

(31) 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)	ND	0.01
(2)	ND	0.01
(3)	ND	0.01
(4)	ND	0.01
(5)	ND	0.01
(6)	ND	0.01
(7)	ND	0.01
(8)	ND	0.01
(9)	ND	0.01
(10)	ND	0.01
(11)	ND	0.01
(12)	ND	0.01
(13)	ND	0.01
(14)	ND	0.01
(15)	ND	0.01
(16)	ND	0.1

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.



TEST REPORT

Number : HKGH02787105

Tested Components:

- (1) Translucent white plastic (Resin #X0018).
- (2) White plastic (Resin #X0052).
- (3) Beige plastic (Resin #X0169).
- (4) Red plastic (Colorant #Y0123).
- (5) White plastic (Colorant #Y0136).
- (6) Deep blue plastic (Colorant #Y0192).
- (7) Silver color plastic (Colorant #Y0207).
- (8) Dull blue plastic (Colorant #Y0320).
- (9) Light tan color plastic (Colorant #Y0345).
- (10) Deep purple plastic (Colorant #Y0352).
- (11) Dark grey plastic (Colorant #Y0353).
- (12) Dark green plastic (Colorant #Y0354).
- (13) Orange plastic (Colorant #Y0355).
- (14) Deep blue plastic (Colorant #Y0356).
- (15) Dull orange plastic (Colorant #Y0357).
- (16) Coatings on paper sheet (INX06 - (Herald Instructions)).

Date sample received : Aug 03, 2021, Sep 16, 2021 and Sep 28, 2021

Test Period : Aug 03, 2021 to Oct 05, 2021



TEST REPORT

Number : HKGH02787105

(32) 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)	ND	0.01
(2)	ND	0.01
(3)	ND	0.01
(4)	ND	0.01
(5)	ND	0.01
(6)	ND	0.01
(7)	ND	0.01
(8)	ND	0.01
(9)	ND	0.01
(10)	ND	0.01
(11)	ND	0.01
(12)	ND	0.01
(13)	ND	0.01
(14)	ND	0.01
(15)	ND	0.01
(16)	ND	0.1

ND : Not detected (< 0.0005%)



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Number : HKGH02787105

Tested Components:

- (1) Translucent white plastic (Resin #X0018).
- (2) White plastic (Resin #X0052).
- (3) Beige plastic (Resin #X0169).
- (4) Red plastic (Colorant #Y0123).
- (5) White plastic (Colorant #Y0136).
- (6) Deep blue plastic (Colorant #Y0192).
- (7) Silver color plastic (Colorant #Y0207).
- (8) Dull blue plastic (Colorant #Y0320).
- (9) Light tan color plastic (Colorant #Y0345).
- (10) Deep purple plastic (Colorant #Y0352).
- (11) Dark grey plastic (Colorant #Y0353).
- (12) Dark green plastic (Colorant #Y0354).
- (13) Orange plastic (Colorant #Y0355).
- (14) Deep blue plastic (Colorant #Y0356).
- (15) Dull orange plastic (Colorant #Y0357).
- (16) Coatings on paper sheet (INX06 - (Herald Instructions)).

Date sample received : Aug 03, 2021, Sep 16, 2021 and Sep 28, 2021
Test Period : Aug 03, 2021 to Oct 05, 2021



TEST REPORT

Number : HKGH02787105

(33) 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)	
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)
	(4)	(5)	(6)	
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



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Compound	Result (% w/w)			Limit (% w/w)
	(7)	(8)	(9)	
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)
	(10)	(11)	(12)	
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)
	(13)	(14)	(15)	
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



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Compound	Result (% w/w)	Limit (% w/w)
	(16)	
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

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) Translucent white plastic (Resin #X0018).
- (2) White plastic (Resin #X0052).
- (3) Beige plastic (Resin #X0169).
- (4) Red plastic (Colorant #Y0123).
- (5) White plastic (Colorant #Y0136).
- (6) Deep blue plastic (Colorant #Y0192).
- (7) Silver color plastic (Colorant #Y0207).
- (8) Dull blue plastic (Colorant #Y0320).
- (9) Light tan color plastic (Colorant #Y0345).
- (10) Deep purple plastic (Colorant #Y0352).
- (11) Dark grey plastic (Colorant #Y0353).
- (12) Dark green plastic (Colorant #Y0354).
- (13) Orange plastic (Colorant #Y0355).
- (14) Deep blue plastic (Colorant #Y0356).
- (15) Dull orange plastic (Colorant #Y0357).
- (16) Coatings on paper sheet (INX06 - (Herald Instructions)).

Date sample received : Aug 03, 2021 and Sep 16, 2021

Test Period : Aug 03, 2021 to Sep 24, 2021



TEST REPORT

Number : HKGH02787105

(34) 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)	
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)
	(4)	(5)	(6)	
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



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Compound	Result (% w/w)			Limit (% w/w)
	(7)	(8)	(9)	
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)
	(10)	(11)	(12)	
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)
	(13)	(14)	(15)	
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



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Compound	Result (% w/w)	Limit (% w/w)
	(16)	
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

The above limit was quoted according to REACH Regulation (EC) no. 1907/2006, Annex XVII, Item 51 & 52 & amendment no. 552/2009 & 2018/2005 & The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 (S.I. 2019 No. 758) as amended.

Tested Components:

- (1) Translucent white plastic (Resin #X0018).
- (2) White plastic (Resin #X0052).
- (3) Beige plastic (Resin #X0169).
- (4) Red plastic (Colorant #Y0123).
- (5) White plastic (Colorant #Y0136).
- (6) Deep blue plastic (Colorant #Y0192).
- (7) Silver color plastic (Colorant #Y0207).
- (8) Dull blue plastic (Colorant #Y0320).
- (9) Light tan color plastic (Colorant #Y0345).
- (10) Deep purple plastic (Colorant #Y0352).
- (11) Dark grey plastic (Colorant #Y0353).
- (12) Dark green plastic (Colorant #Y0354).
- (13) Orange plastic (Colorant #Y0355).
- (14) Deep blue plastic (Colorant #Y0356).
- (15) Dull orange plastic (Colorant #Y0357).
- (16) Coatings on paper sheet (INX06 - (Herald Instructions)).

Date sample received : Aug 03, 2021 and Sep 16, 2021

Test Period : Aug 03, 2021 to Sep 24, 2021



TEST REPORT

Number : HKGH02787105

(35) 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)	
Tri-substituted Organotin [^]	<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)
	(4)	(5)	(6)	
Tri-substituted Organotin [^]	<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)
	(7)	(8)	(9)	
Tri-substituted Organotin [^]	<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)
	(10)	(11)	(12)	
Tri-substituted Organotin [^]	<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



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Compound	Result (% w/w)			Limit (% w/w)
	(13)	(14)	(15)	
Tri-substituted Organotin [^]	<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)
	(16)	
Tri-substituted Organotin [^]	<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.

[^] = 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) Translucent white plastic (Resin #X0018).
- (2) White plastic (Resin #X0052).
- (3) Beige plastic (Resin #X0169).
- (4) Red plastic (Colorant #Y0123).
- (5) White plastic (Colorant #Y0136).
- (6) Deep blue plastic (Colorant #Y0192).
- (7) Silver color plastic (Colorant #Y0207).
- (8) Dull blue plastic (Colorant #Y0320).
- (9) Light tan color plastic (Colorant #Y0345).
- (10) Deep purple plastic (Colorant #Y0352).
- (11) Dark grey plastic (Colorant #Y0353).
- (12) Dark green plastic (Colorant #Y0354).
- (13) Orange plastic (Colorant #Y0355).
- (14) Deep blue plastic (Colorant #Y0356).
- (15) Dull orange plastic (Colorant #Y0357).
- (16) Paper sheet with coatings (INX06 - (Herald Instructions)).

Date sample received : Aug 03, 2021 and Sep 16, 2021

Test Period : Aug 03, 2021 to Sep 24, 2021



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Number : HKGH02787105

(36) 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)	
Tri-substituted Organotin [^]	<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)
	(4)	(5)	(6)	
Tri-substituted Organotin [^]	<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)
	(7)	(8)	(9)	
Tri-substituted Organotin [^]	<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)
	(10)	(11)	(12)	
Tri-substituted Organotin [^]	<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



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Compound	Result (% w/w)			Limit (% w/w)
	(13)	(14)	(15)	
Tri-substituted Organotin [^]	<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)
	(16)	
Tri-substituted Organotin [^]	<0.005	0.1
Dibutyltin (DBT)	<0.005	0.1
Diocetyl tin (DOT)	<0.005	0.1

The above limit was quoted according to REACH Regulation (EC) No. 1907/2006, Annex XVII, Item 20 & amendment no. 276/2010 & The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 (S.I. 2019 No. 758) as amended for organotin content.

[^] = 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) Translucent white plastic (Resin #X0018).
- (2) White plastic (Resin #X0052).
- (3) Beige plastic (Resin #X0169).
- (4) Red plastic (Colorant #Y0123).
- (5) White plastic (Colorant #Y0136).
- (6) Deep blue plastic (Colorant #Y0192).
- (7) Silver color plastic (Colorant #Y0207).
- (8) Dull blue plastic (Colorant #Y0320).
- (9) Light tan color plastic (Colorant #Y0345).
- (10) Deep purple plastic (Colorant #Y0352).
- (11) Dark grey plastic (Colorant #Y0353).
- (12) Dark green plastic (Colorant #Y0354).
- (13) Orange plastic (Colorant #Y0355).
- (14) Deep blue plastic (Colorant #Y0356).
- (15) Dull orange plastic (Colorant #Y0357).
- (16) Paper sheet with coatings (INX06 - (Herald Instructions)).

Date sample received : Aug 03, 2021 and Sep 16, 2021
 Test Period : Aug 03, 2021 to Sep 24, 2021



TEST REPORT

Number : HKGH02787105

(37) 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)	
Benzo(a)pyrene	<0.20	<0.20	<0.20	0.5
Benzo(e)pyrene	<0.20	<0.20	<0.20	0.5
Benzo(a)anthracene	<0.20	<0.20	<0.20	0.5
Chrysene	<0.20	<0.20	<0.20	0.5
Benzo(b)fluoranthene	<0.20	<0.20	<0.20	0.5
Benzo(j)fluoranthene	<0.20	<0.20	<0.20	0.5
Benzo(k)fluoranthene	<0.20	<0.20	<0.20	0.5
Dibenzo(a,h)anthracene	<0.20	<0.20	<0.20	0.5

Compound	Result (ppm)			Limit (ppm)
	(4)	(5)	(6)	
Benzo(a)pyrene	<0.20	<0.20	<0.20	0.5
Benzo(e)pyrene	<0.20	<0.20	<0.20	0.5
Benzo(a)anthracene	<0.20	<0.20	<0.20	0.5
Chrysene	<0.20	<0.20	<0.20	0.5
Benzo(b)fluoranthene	<0.20	<0.20	<0.20	0.5
Benzo(j)fluoranthene	<0.20	<0.20	<0.20	0.5
Benzo(k)fluoranthene	<0.20	<0.20	<0.20	0.5
Dibenzo(a,h)anthracene	<0.20	<0.20	<0.20	0.5



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Compound	Result (ppm)			Limit (ppm)
	(7)	(8)	(9)	
Benzo(a)pyrene	<0.20	<0.20	<0.20	0.5
Benzo(e)pyrene	<0.20	<0.20	<0.20	0.5
Benzo(a)anthracene	<0.20	<0.20	<0.20	0.5
Chrysene	<0.20	<0.20	<0.20	0.5
Benzo(b)fluoranthene	<0.20	<0.20	<0.20	0.5
Benzo(j)fluoranthene	<0.20	<0.20	<0.20	0.5
Benzo(k)fluoranthene	<0.20	<0.20	<0.20	0.5
Dibenzo(a,h)anthracene	<0.20	<0.20	<0.20	0.5

Compound	Result (ppm)			Limit (ppm)
	(10)	(11)	(12)	
Benzo(a)pyrene	<0.20	<0.20	<0.20	0.5
Benzo(e)pyrene	<0.20	<0.20	<0.20	0.5
Benzo(a)anthracene	<0.20	<0.20	<0.20	0.5
Chrysene	<0.20	<0.20	<0.20	0.5
Benzo(b)fluoranthene	<0.20	<0.20	<0.20	0.5
Benzo(j)fluoranthene	<0.20	<0.20	<0.20	0.5
Benzo(k)fluoranthene	<0.20	<0.20	<0.20	0.5
Dibenzo(a,h)anthracene	<0.20	<0.20	<0.20	0.5

Compound	Result (ppm)			Limit (ppm)
	(13)	(14)	(15)	
Benzo(a)pyrene	<0.20	<0.20	<0.20	0.5
Benzo(e)pyrene	<0.20	<0.20	<0.20	0.5
Benzo(a)anthracene	<0.20	<0.20	<0.20	0.5
Chrysene	<0.20	<0.20	<0.20	0.5
Benzo(b)fluoranthene	<0.20	<0.20	<0.20	0.5
Benzo(j)fluoranthene	<0.20	<0.20	<0.20	0.5
Benzo(k)fluoranthene	<0.20	<0.20	<0.20	0.5
Dibenzo(a,h)anthracene	<0.20	<0.20	<0.20	0.5



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Compound	Result (ppm)	Limit (ppm)
	(16)	
Benzo(a)pyrene	<0.20	0.5
Benzo(e)pyrene	<0.20	0.5
Benzo(a)anthracene	<0.20	0.5
Chrysene	<0.20	0.5
Benzo(b)fluoranthene	<0.20	0.5
Benzo(j)fluoranthene	<0.20	0.5
Benzo(k)fluoranthene	<0.20	0.5
Dibenzo(a,h)anthracene	<0.20	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) Translucent white plastic (Resin #X0018).
- (2) White plastic (Resin #X0052).
- (3) Beige plastic (Resin #X0169).
- (4) Red plastic (Colorant #Y0123).
- (5) White plastic (Colorant #Y0136).
- (6) Deep blue plastic (Colorant #Y0192).
- (7) Silver color plastic (Colorant #Y0207).
- (8) Dull blue plastic (Colorant #Y0320).
- (9) Light tan color plastic (Colorant #Y0345).
- (10) Deep purple plastic (Colorant #Y0352).
- (11) Dark grey plastic (Colorant #Y0353).
- (12) Dark green plastic (Colorant #Y0354).
- (13) Orange plastic (Colorant #Y0355).
- (14) Deep blue plastic (Colorant #Y0356).
- (15) Dull orange plastic (Colorant #Y0357).
- (16) Coatings on paper sheet (INX06 - (Herald Instructions)).

Date sample received : Jun 01, 2021

Test Period : Jun 01, 2021 to Jun 07, 2021



TEST REPORT

Number : HKGH02787105

(38) 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)	
Benzo(a)pyrene	<0.20	<0.20	<0.20	0.5
Benzo(e)pyrene	<0.20	<0.20	<0.20	0.5
Benzo(a)anthracene	<0.20	<0.20	<0.20	0.5
Chrysene	<0.20	<0.20	<0.20	0.5
Benzo(b)fluoranthene	<0.20	<0.20	<0.20	0.5
Benzo(j)fluoranthene	<0.20	<0.20	<0.20	0.5
Benzo(k)fluoranthene	<0.20	<0.20	<0.20	0.5
Dibenzo(a,h)anthracene	<0.20	<0.20	<0.20	0.5

Compound	Result (ppm)			Limit (ppm)
	(4)	(5)	(6)	
Benzo(a)pyrene	<0.20	<0.20	<0.20	0.5
Benzo(e)pyrene	<0.20	<0.20	<0.20	0.5
Benzo(a)anthracene	<0.20	<0.20	<0.20	0.5
Chrysene	<0.20	<0.20	<0.20	0.5
Benzo(b)fluoranthene	<0.20	<0.20	<0.20	0.5
Benzo(j)fluoranthene	<0.20	<0.20	<0.20	0.5
Benzo(k)fluoranthene	<0.20	<0.20	<0.20	0.5
Dibenzo(a,h)anthracene	<0.20	<0.20	<0.20	0.5



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Compound	Result (ppm)			Limit (ppm)
	(7)	(8)	(9)	
Benzo(a)pyrene	<0.20	<0.20	<0.20	0.5
Benzo(e)pyrene	<0.20	<0.20	<0.20	0.5
Benzo(a)anthracene	<0.20	<0.20	<0.20	0.5
Chrysene	<0.20	<0.20	<0.20	0.5
Benzo(b)fluoranthene	<0.20	<0.20	<0.20	0.5
Benzo(j)fluoranthene	<0.20	<0.20	<0.20	0.5
Benzo(k)fluoranthene	<0.20	<0.20	<0.20	0.5
Dibenzo(a,h)anthracene	<0.20	<0.20	<0.20	0.5

Compound	Result (ppm)			Limit (ppm)
	(10)	(11)	(12)	
Benzo(a)pyrene	<0.20	<0.20	<0.20	0.5
Benzo(e)pyrene	<0.20	<0.20	<0.20	0.5
Benzo(a)anthracene	<0.20	<0.20	<0.20	0.5
Chrysene	<0.20	<0.20	<0.20	0.5
Benzo(b)fluoranthene	<0.20	<0.20	<0.20	0.5
Benzo(j)fluoranthene	<0.20	<0.20	<0.20	0.5
Benzo(k)fluoranthene	<0.20	<0.20	<0.20	0.5
Dibenzo(a,h)anthracene	<0.20	<0.20	<0.20	0.5

Compound	Result (ppm)			Limit (ppm)
	(13)	(14)	(15)	
Benzo(a)pyrene	<0.20	<0.20	<0.20	0.5
Benzo(e)pyrene	<0.20	<0.20	<0.20	0.5
Benzo(a)anthracene	<0.20	<0.20	<0.20	0.5
Chrysene	<0.20	<0.20	<0.20	0.5
Benzo(b)fluoranthene	<0.20	<0.20	<0.20	0.5
Benzo(j)fluoranthene	<0.20	<0.20	<0.20	0.5
Benzo(k)fluoranthene	<0.20	<0.20	<0.20	0.5
Dibenzo(a,h)anthracene	<0.20	<0.20	<0.20	0.5



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Compound	Result (ppm)	Limit (ppm)
	(16)	
Benzo(a)pyrene	<0.20	0.5
Benzo(e)pyrene	<0.20	0.5
Benzo(a)anthracene	<0.20	0.5
Chrysene	<0.20	0.5
Benzo(b)fluoranthene	<0.20	0.5
Benzo(j)fluoranthene	<0.20	0.5
Benzo(k)fluoranthene	<0.20	0.5
Dibenzo(a,h)anthracene	<0.20	0.5

The above limit was quoted according to REACH Regulation (EC) no. 1907/2006 & amendment no. 1272/2013, Annex XVII, Item 50 & The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 (S.I. 2019 No. 758) as amended for polycyclic aromatic hydrocarbons (PAH).

ppm = parts per million = mg/kg

Tested Components:

- (1) Translucent white plastic (Resin #X0018).
- (2) White plastic (Resin #X0052).
- (3) Beige plastic (Resin #X0169).
- (4) Red plastic (Colorant #Y0123).
- (5) White plastic (Colorant #Y0136).
- (6) Deep blue plastic (Colorant #Y0192).
- (7) Silver color plastic (Colorant #Y0207).
- (8) Dull blue plastic (Colorant #Y0320).
- (9) Light tan color plastic (Colorant #Y0345).
- (10) Deep purple plastic (Colorant #Y0352).
- (11) Dark grey plastic (Colorant #Y0353).
- (12) Dark green plastic (Colorant #Y0354).
- (13) Orange plastic (Colorant #Y0355).
- (14) Deep blue plastic (Colorant #Y0356).
- (15) Dull orange plastic (Colorant #Y0357).
- (16) Coatings on paper sheet (INX06 - (Herald Instructions)).

Date sample received : Jun 01, 2021

Test Period : Jun 01, 2021 to Jun 07, 2021



TEST REPORT

Number : HKGH02787105

(39) Polycyclic Aromatic Hydrocarbons (PAH) Content

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

Products used by children including toys:

Testing Item	Result (mg/kg)				Category 1 Limit (mg/kg)	Category 2a Limit (mg/kg)	Category 3a Limit (mg/kg)
	(1)	(2)	(3)	(4)			
Phenanthrene	<0.20	<0.20	<0.20	<0.20	--	--	--
Anthracene	<0.20	<0.20	<0.20	<0.20	--	--	--
Fluoranthene	<0.20	<0.20	<0.20	<0.20	--	--	--
Pyrene	<0.20	<0.20	<0.20	<0.20	--	--	--
Sum (4 PAHs)	<0.20	<0.20	<0.20	<0.20	1	5	20
Naphthalene	<0.20	<0.20	<0.20	<0.20	1	2	10
Benzo(a)pyrene	<0.20	<0.20	<0.20	<0.20	0.2	0.2	0.5
Benzo(e)pyrene	<0.20	<0.20	<0.20	<0.20	0.2	0.2	0.5
Benzo(a)anthracene	<0.20	<0.20	<0.20	<0.20	0.2	0.2	0.5
Benzo(b)fluoranthene	<0.20	<0.20	<0.20	<0.20	0.2	0.2	0.5
Benzo(j)fluoranthene	<0.20	<0.20	<0.20	<0.20	0.2	0.2	0.5
Benzo(k)fluoranthene	<0.20	<0.20	<0.20	<0.20	0.2	0.2	0.5
Chrysene	<0.20	<0.20	<0.20	<0.20	0.2	0.2	0.5
Dibenzo(a,h)anthracene	<0.20	<0.20	<0.20	<0.20	0.2	0.2	0.5
Benzo(ghi)perylene	<0.20	<0.20	<0.20	<0.20	0.2	0.2	0.5
Indeno(1,2,3-c,d)pyrene	<0.20	<0.20	<0.20	<0.20	0.2	0.2	0.5
Sum (15 PAHs)	<0.20	<0.20	<0.20	<0.20	1	5	20
Classification of samples: Category	1	1	1	1			



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Testing Item	Result (mg/kg)				Category 1 Limit (mg/kg)	Category 2a Limit (mg/kg)	Category 3a Limit (mg/kg)
	(5)	(6)	(7)	(8)			
Phenanthrene	<0.20	<0.20	<0.20	<0.20	--	--	--
Anthracene	<0.20	<0.20	<0.20	<0.20	--	--	--
Fluoranthene	<0.20	<0.20	<0.20	<0.20	--	--	--
Pyrene	<0.20	<0.20	<0.20	<0.20	--	--	--
Sum (4 PAHs)	<0.20	<0.20	<0.20	<0.20	1	5	20
Naphthalene	<0.20	<0.20	<0.20	0.57	1	2	10
Benzo(a)pyrene	<0.20	<0.20	<0.20	<0.20	0.2	0.2	0.5
Benzo(e)pyrene	<0.20	<0.20	<0.20	<0.20	0.2	0.2	0.5
Benzo(a)anthracene	<0.20	<0.20	<0.20	<0.20	0.2	0.2	0.5
Benzo(b)fluoranthene	<0.20	<0.20	<0.20	<0.20	0.2	0.2	0.5
Benzo(j)fluoranthene	<0.20	<0.20	<0.20	<0.20	0.2	0.2	0.5
Benzo(k)fluoranthene	<0.20	<0.20	<0.20	<0.20	0.2	0.2	0.5
Chrysene	<0.20	<0.20	<0.20	<0.20	0.2	0.2	0.5
Dibenzo(a,h)anthracene	<0.20	<0.20	<0.20	<0.20	0.2	0.2	0.5
Benzo(ghi)perylene	<0.20	<0.20	<0.20	<0.20	0.2	0.2	0.5
Indeno(1,2,3-c,d)pyrene	<0.20	<0.20	<0.20	<0.20	0.2	0.2	0.5
Sum (15 PAHs)	<0.20	<0.20	<0.20	0.57	1	5	20
Classification of samples: Category	1	1	1	1			



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Testing Item	Result (mg/kg)				Category 1 Limit (mg/kg)	Category 2a Limit (mg/kg)	Category 3a Limit (mg/kg)
	(9)	(10)	(11)	(12)			
Phenanthrene	<0.20	<0.20	<0.20	<0.20	--	--	--
Anthracene	<0.20	<0.20	<0.20	<0.20	--	--	--
Fluoranthene	<0.20	<0.20	<0.20	<0.20	--	--	--
Pyrene	<0.20	<0.20	<0.20	<0.20	--	--	--
Sum (4 PAHs)	<0.20	<0.20	<0.20	<0.20	1	5	20
Naphthalene	<0.20	<0.20	<0.20	<0.20	1	2	10
Benzo(a)pyrene	<0.20	<0.20	<0.20	<0.20	0.2	0.2	0.5
Benzo(e)pyrene	<0.20	<0.20	<0.20	<0.20	0.2	0.2	0.5
Benzo(a)anthracene	<0.20	<0.20	<0.20	<0.20	0.2	0.2	0.5
Benzo(b)fluoranthene	<0.20	<0.20	<0.20	<0.20	0.2	0.2	0.5
Benzo(j)fluoranthene	<0.20	<0.20	<0.20	<0.20	0.2	0.2	0.5
Benzo(k)fluoranthene	<0.20	<0.20	<0.20	<0.20	0.2	0.2	0.5
Chrysene	<0.20	<0.20	<0.20	<0.20	0.2	0.2	0.5
Dibenzo(a,h)anthracene	<0.20	<0.20	<0.20	<0.20	0.2	0.2	0.5
Benzo(ghi)perylene	<0.20	<0.20	<0.20	<0.20	0.2	0.2	0.5
Indeno(1,2,3-c,d)pyrene	<0.20	<0.20	<0.20	<0.20	0.2	0.2	0.5
Sum (15 PAHs)	<0.20	<0.20	<0.20	<0.20	1	5	20
Classification of samples: Category	1	1	1	1			



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Testing Item	Result (mg/kg)				Category 1 Limit (mg/kg)	Category 2a Limit (mg/kg)	Category 3a Limit (mg/kg)
	(13)	(14)	(15)	(16)			
Phenanthrene	<0.20	<0.20	<0.20	<0.20	--	--	--
Anthracene	<0.20	<0.20	<0.20	<0.20	--	--	--
Fluoranthene	<0.20	<0.20	<0.20	<0.20	--	--	--
Pyrene	<0.20	<0.20	<0.20	<0.20	--	--	--
Sum (4 PAHs)	<0.20	<0.20	<0.20	<0.20	1	5	20
Naphthalene	<0.20	<0.20	<0.20	0.41	1	2	10
Benzo(a)pyrene	<0.20	<0.20	<0.20	<0.20	0.2	0.2	0.5
Benzo(e)pyrene	<0.20	<0.20	<0.20	<0.20	0.2	0.2	0.5
Benzo(a)anthracene	<0.20	<0.20	<0.20	<0.20	0.2	0.2	0.5
Benzo(b)fluoranthene	<0.20	<0.20	<0.20	<0.20	0.2	0.2	0.5
Benzo(j)fluoranthene	<0.20	<0.20	<0.20	<0.20	0.2	0.2	0.5
Benzo(k)fluoranthene	<0.20	<0.20	<0.20	<0.20	0.2	0.2	0.5
Chrysene	<0.20	<0.20	<0.20	<0.20	0.2	0.2	0.5
Dibenzo(a,h)anthracene	<0.20	<0.20	<0.20	<0.20	0.2	0.2	0.5
Benzo(ghi)perylene	<0.20	<0.20	<0.20	<0.20	0.2	0.2	0.5
Indeno(1,2,3-c,d)pyrene	<0.20	<0.20	<0.20	<0.20	0.2	0.2	0.5
Sum (15 PAHs)	<0.20	<0.20	<0.20	0.41	1	5	20
Classification of samples: Category	1	1	1	2a			



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Category1	Materials intended to be put into the mouth, or materials intended for longer skin contact (longer than 30s): - in toys according to Directive 2009/48/EC - for use by infants and toddlers (with direct contact by children <3 years old)
Category2	Materials that are not covered by category 1, with prolonged skin contact (longer than 30s) or repeated short-term skin contact if used as intended or foreseeable 2a. designed for children and for use by children 2b. other consumer products
Category3	Materials that are not covered by category 1 or 2, with short-term skin contact (up to 30 s) when used as intended or foreseeable 3a. designed for children and for use by children 3b. other consumer products

mg/kg = milligram per kilogram

The above limit was quoted according to the document AfPS GS 2019:01 PAK issued by the Federal Institute for Occupational Safety and Health for PAH content.

Tested Components:

- (1) Translucent white plastic (Resin #X0018).
- (2) White plastic (Resin #X0052).
- (3) Beige plastic (Resin #X0169).
- (4) Red plastic (Colorant #Y0123).
- (5) White plastic (Colorant #Y0136).
- (6) Deep blue plastic (Colorant #Y0192).
- (7) Silver color plastic (Colorant #Y0207).
- (8) Dull blue plastic (Colorant #Y0320).
- (9) Light tan color plastic (Colorant #Y0345).
- (10) Deep purple plastic (Colorant #Y0352).
- (11) Dark grey plastic (Colorant #Y0353).
- (12) Dark green plastic (Colorant #Y0354).
- (13) Orange plastic (Colorant #Y0355).
- (14) Deep blue plastic (Colorant #Y0356).
- (15) Dull orange plastic (Colorant #Y0357).
- (16) Coatings on paper sheet (INX06 - (Herald Instructions)).

Date sample received : Jun 01, 2021

Test Period : Jun 01, 2021 to Jun 07, 2021



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(40) Physical and Mechanical Tests

Test Standard : Australian / New Zealand standard AS/NZS ISO 8124-1:2019 + Amd 1:2020 + Amd 2:2020 - safety aspects related to mechanical and physical properties.

Age group for testing : For Ages Over 8 Years

Clause	Requirement	Assessment
4.1	Normal use	P
4.2	Reasonably foreseeable abuse	NA
4.3	Material	P
4.4	Small parts	NA
4.5	Shape, size and strength of certain toys	NA
4.6	Edges	NA
4.7	Points	NA
4.8	Projections	NA
4.9	Metal wires and rods	NA
4.10	Plastic film or plastic bags in packaging and in toys	P
4.11	Cords and elastic	NA
4.12	Folding mechanisms	NA
4.13	Holes, clearances and accessibility of mechanisms	NA
4.14	Springs	NA
4.15	Stability and overload requirement	NA
4.16	Enclosures	NA
4.17	Simulated protective equipment, such as helmets, hats and goggles	NA
4.18	Projectile toys	NA
4.19	Flying toys	NA
4.20	Aquatic toys	NA
4.21.	Braking	NA
4.22	Toy bicycles	NA
4.23.	Speed limitation of electrically driven ride-on toys	NA
4.24.	Toys containing a heat source	NA
4.25	Liquid-filled toys	NA



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Clause	Requirement	Assessment
4.26	Mouth-actuated toys	NA
4.27	Toy roller skates and toy skateboards	NA
4.28	Percussion caps	NA
4.29.	Acoustic requirements	NA
4.30.	Toy scooters	NA
4.31.	Magnets and magnetic components	NA
4.32	Yo-yo balls	NA
4.33	Straps intended to be worn fully or partially around the neck	NA
4.34	Sledges and toboggans with cords for pulling	NA
4.35	Jaw entrapment in handles and steering wheels	NA
4.36	Assembly	NA
ANNEX B	Safety labelling guidelines and manufacturer's markings	P
ANNEX D	Toy gun marking	NA

Abbreviation : P = Pass NA = Not Applicable

Date sample received : Jun 01, 2021
Test Period : Jun 01, 2021 to Jun 07, 2021

(41) Flammability Test

Test Standard : Australian/New Zealand Standard AS/NZS 8124.2: 2016

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 a play	NA
4.4	Toys intended to be entered by a child	NA
4.5	Soft filled toys with a piled or textile surface	NA

Abbreviation : P = Pass NA = Not Applicable

Additional Information: Butane gas was used in the test burner.

Date sample received : Jun 01, 2021
Test Period : Jun 01, 2021 to Jun 07, 2021



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(42) Toxic Elements Analysis

Test Method : Acid extraction method was used and toxic elements content were determined by Inductively Coupled Plasma Optical Emission Spectrometry.

Materials other than modelling clay:

	Result (mg/kg)			Limit (mg/kg)
	(1)	(2)	(3)	
Soluble Barium (Ba)	<5	<5	<5	1000
Soluble Lead (Pb)	<5	<5	<5	90
Soluble Cadmium (Cd)	<5	<5	<5	75
Soluble Antimony (Sb)	<5	<5	<5	60
Soluble Selenium (Se)	<5	<5	<5	500
Soluble Chromium (Cr)	<5	<5	<5	60
Soluble Mercury (Hg)	<5	<5	<5	60
Soluble Arsenic (As)	<2.5	<2.5	<2.5	25

	Result (mg/kg)			Limit (mg/kg)
	(4)	(5)	(6)	
Soluble Barium (Ba)	80	43	<5	1000
Soluble Lead (Pb)	<5	<5	<5	90
Soluble Cadmium (Cd)	<5	<5	<5	75
Soluble Antimony (Sb)	<5	<5	<5	60
Soluble Selenium (Se)	<5	<5	<5	500
Soluble Chromium (Cr)	<5	<5	<5	60
Soluble Mercury (Hg)	<5	<5	<5	60
Soluble Arsenic (As)	<2.5	<2.5	<2.5	25



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	Result (mg/kg)			Limit (mg/kg)
	(7)	(8)	(9)	
Soluble Barium (Ba)	<5	51	64	1000
Soluble Lead (Pb)	<5	<5	<5	90
Soluble Cadmium (Cd)	<5	<5	<5	75
Soluble Antimony (Sb)	<5	<5	<5	60
Soluble Selenium (Se)	<5	<5	<5	500
Soluble Chromium (Cr)	<5	<5	<5	60
Soluble Mercury (Hg)	<5	<5	<5	60
Soluble Arsenic (As)	<2.5	<2.5	<2.5	25

	Result (mg/kg)			Limit (mg/kg)
	(10)	(11)	(12)	
Soluble Barium (Ba)	62	75	<5	1000
Soluble Lead (Pb)	<5	<5	<5	90
Soluble Cadmium (Cd)	<5	<5	<5	75
Soluble Antimony (Sb)	<5	<5	<5	60
Soluble Selenium (Se)	<5	<5	<5	500
Soluble Chromium (Cr)	<5	<5	<5	60
Soluble Mercury (Hg)	<5	<5	<5	60
Soluble Arsenic (As)	<2.5	<2.5	<2.5	25

	Result (mg/kg)			Limit (mg/kg)
	(13)	(14)	(15)	
Soluble Barium (Ba)	70	46	61	1000
Soluble Lead (Pb)	<5	<5	<5	90
Soluble Cadmium (Cd)	<5	<5	<5	75
Soluble Antimony (Sb)	<5	<5	<5	60
Soluble Selenium (Se)	<5	<5	<5	500
Soluble Chromium (Cr)	<5	<5	<5	60
Soluble Mercury (Hg)	<5	<5	<5	60
Soluble Arsenic (As)	<2.5	<2.5	<2.5	25



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	Result (mg/kg)		Limit (mg/kg)
	(16)	(17)	
Soluble Barium (Ba)	<5	<5	1000
Soluble Lead (Pb)	<5	<5	90
Soluble Cadmium (Cd)	<5	<5	75
Soluble Antimony (Sb)	<5	<5	60
Soluble Selenium (Se)	<5	<5	500
Soluble Chromium (Cr)	<5	<5	60
Soluble Mercury (Hg)	<5	<5	60
Soluble Arsenic (As)	<2.5	<2.5	25

mg/kg = milligram per kilogram

Tested Components:

- (1) Translucent white plastic (Resin #X0018).
- (2) White plastic (Resin #X0052).
- (3) Beige plastic (Resin #X0169).
- (4) Red plastic (Colorant #Y0123).
- (5) White plastic (Colorant #Y0136).
- (6) Deep blue plastic (Colorant #Y0192).
- (7) Silver color plastic (Colorant #Y0207).
- (8) Dull blue plastic (Colorant #Y0320).
- (9) Light tan color plastic (Colorant #Y0345).
- (10) Deep purple plastic (Colorant #Y0352).
- (11) Dark grey plastic (Colorant #Y0353).
- (12) Dark green plastic (Colorant #Y0354).
- (13) Orange plastic (Colorant #Y0355).
- (14) Deep blue plastic (Colorant #Y0356).
- (15) Dull orange plastic (Colorant #Y0357).
- (16) Paper sheet with coatings (INX06 - (Herald Instructions)).
- (17) White thread (binding of Herald Instructions).



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Decision Rule:

∞ : Materials are deemed to comply with the requirements if the adjusted analytical result is less than or equal to the limit of this table.

The analytical result of materials shall be adjusted by subtracting the analytical correction in below table to obtain an adjusted analytical result.

Elements	Sb	As	Ba	Cd	Cr	Pb	Hg	Se
Analytical Correction(%)	60	60	30	30	30	30	50	60

Date sample received : Aug 03, 2021, Sep 16, 2021 and Sep 28, 2021

Test Period : Aug 03, 2021 to Oct 05, 2021



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End of report

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