

Hong Kong Government Recognized Service Supplier Approved Laboratory of The Woolmark Company

Members of:

American National Standards Institute American Society for Testing and Materials British Standards Institute

Hong Kong Association for Testing, Inspection and Certification Limited

Date:

Jul 26, 2016

Hong Kong Toys Council

Test Report Number: HKGH0198876806 S1

Applicant: FLAIR LEISURE PRODUCTS PLC

(GIOCHI PREZIOSI) **ANNE BOLEYN HSE** 9/13 EWELL RD CHEAM SM3 8BZ UNITED KINGDOM

ANDREW MCKAY Attn: This is to supersede Report No. HKGH0198876806 dated Jul 26, 2016

Submitted sample said to be

Item Name (1) Face Deco (Black coating)

(2) Cube + Lid (Green)

(3) Axle (Red) (4) Wheel (Black) (5) Girl Face (Blue)

(6) Bucket (Red) with Handle (Blue)

(7) Bucket Lid (Yellow) (8) Bucket (Pink)

(9) Bucket Lid (Dark Pink)

(10) Bucket Handle (Purple) (11) Folding Box Packaging (Beginner Box) (12) Lid Label (Beginner Box) (13) Bucket labels (Big red Bucket) (14) Folding Box Packaging (Build it Big)

(15) Instruction leaflets (16) Boy Face (Orange) (17) Baby Face (Red) (18) Boy/Baby/Girl Face (Pink)

(19) Boy/Baby/Girl Face (White) (20) Boy/Girl Face (Purple)

(21) Poly Bags

(22) Mother Head (Pink and Yellow) (23) Father Head (Pink and Brown)

(24) Small Window (Purple) (25) Disc (Orange) (26) Disc With Holes (Red) (27) Small Square (Orànge)

(28) Stick (Orange) (29) Big Window (Ŕed) (30) Semi Circle (Red)

For and on behalf of:

Intertek Testing Services HK Ltd.

Angel Y.F. Cheung Vice President

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(31) Small Rectangle (Yellow) (32) Small Triangle (Blue) Item Name

(33) Convex (Blue) (34) Base Plate (Yellow) (35) Large Rectangle (Green)

(36) Beginner Box Lid (red) ùséd in:

Stickle Brick Item No.

Quantity 6 sets Labelled Age Group "1+" Packaging Provided Country of Origin Yes

India

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:

(1)	Requirement EN71-1: 2014 - Mechanical and Physical Properties	Result Pass
(2)	EN71-2 : 2011 + A1 : 2014 - Flammability Test	Pass
(3)	EN71-3 : 2013 + A1:2014 - Migration of certain elements	Pass
(4)	REACH Regulation (EC) No.1907/2006 , Annex XVII Item 23 & amendment No. 2016/217 - Cadmium content requirement	Pass
(5)	REACH Regulation (EC) no. 1907/2006, Annex XVII Items 51 & 52 & amendment no. 552/2009 - Phthalates content	Pass
(6)	94/62/EC and amendment 2013/2/EU & Directive (EU) 2015/720 Directive (packaging waste) - Toxic elements test	Pass
(7)	REACH Regulation (EC) no. 1907/2006 & amendment (EU) no. 1272/2013 Annex XVII Item	Pass
	50 - Polycyclic aromatic hydrocarbons content	
(8)	EN71-9 : 2005 and amendment A1 : 2007 - Monomers migration requirement	Pass
(9) ****	EN71-9 : 2005 and amendment A1 : 2007 - Plasticizer migration requirement	Pass



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Requirement (10) EN71-9 : 2005 and amendment A1 : 2007 Result

- Solvent migration requirement

(11) EN71-9: 2005 and amendment A1: 2007 Pass

- Primary aromatic amines requirement

(12) EN71-9: 2005 and amendment A1: 2007 Pass

- Colourants requirement

(13) EN71-9: 2005 and amendment A1: 2007 Pass

- Formaldehyde requirement for paper components

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(1) Physical and Mechanical Tests on items (2)-(36)

Test Standard : European Standard on Safety of Toys EN71-1:2014

Age group for testing : For Ages Over 1 Year

The submitted samples were undergone the following abuse tests:				
<u>Clause</u>	<u>Testing Items</u>			
8.3	Torque test (0.34 Nm)			
8.4.2.1	Tension test (90 N)			
8.5	Drop Test (850 mm x 5)			
8.7	Impact test (1 kg)			
8.8	Compression test (110 N)			

Clause	Requirement	Assessment
4	General requirements	
4.1	Material cleanliness	Р
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	Р
4.8	Points and Metallic wires	Р
4.9	Protruding parts	NA
4.10	Parts moving against each other	NA
4.11	Mouth actuated toys and other toys intended to be put into mouth	NA
4.12	Balloons	NA
4.13	Cords of toy kites and other flying toys	NA
4.14	Enclosures	NA
4.15	Toys intended to bear the mass of a child	NA
4.16	Heavy immobile toys	NA
4.17	Projectiles	NA
4.18	Aquatic toys and inflatable toys	NA
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	NA
4.20	Acoustics	NA
4.21	Toys containing non -electrical heat source	NA
4.22	Small balls	NA
4.23	Magnets	NA
4.24	Yo-yo balls	NA
4.25	Toys attached to food	NA
5	Toys intended for children under 36 months	
5.1	General requirements for toys intended for children under 36 months	Р
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



Intertek Testing Services Hong Kong Ltd. 2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong. Tel: (852) 2173 8888 Fax: (852) 2786 1903 Website: www.intertek.com



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Clause	Requirement .	<u>Assessment</u>
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
6	Packaging	NA
7	Warnings, markings and instructions for use	
7.1	General	Р
7.2	Toys not intended for children under 36 months	NA
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	Projectiles	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 teethers	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
	↓	+

Abbreviation: P = Pass NA = Not Applicable

The submitted samples were undergone the abuse tests for Clause 5.1 in according to 8.3 (Torque test), 8.4 (Tension test), 8.5 (Drop test), 8.7 (Impact test), 8.8 (Compression test) and specific tests for different types of toys whichever applicable.

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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 trade mark, 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	Absent	Present
Manufacturer's address	Absent	Present
Importer's name	Absent	Absent
Importer's address	Absent	Absent
Product identification code	Absent	Present
CE-marking	Absent	Present

Cleaning instruction

A toy intended for use by children under 36 months must be designed and manufactured in such a way that it can be cleaned. The toy shall fulfill the safety requirements also after having been cleaned in accordance with this point and the manufacturer's instructions. The manufacturer should, if applicable, provided instructions on how the toy has to be cleaned.

After checking, the cleaning instruction was not found on the submitted samples.

Date sample received: Jun 29, 2016 and Jul 15, 2016

Test Period: Jun 29, 2016 to Jul 15, 2016



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(2)Flammability Test on items (2)- (36)

Test Standard : European Standard on Safety of Toys EN71-2 : 2011 + A1 : 2014

Clause	Requirement Property of the Re	Assessment
4.1	General	Р
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

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Test Period: Jun 29, 2016 to Jul 15, 2016



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(3) 19 Toxic Element Migration Test

Test Standard : EN71-3:2013 + A1:2014

Category (III): Scraped-off toy material:

Category (III): Ceraped on toy mater	Result (mg/kg)			Limit
	(1)	(2)	(3)	(mg/kg)
Soluble Aluminium (AI)	<300	<300	<300	70000
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) ++	<0.1	<0.1	<0.1	0.2
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	160
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

		Result (mg/kg)		Limit
	(4)	(5)	(6)	(mg/kg)
Soluble Aluminium (AI)	<300	<300	<300	70000
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) ++	<0.1	<0.1	<0.1	0.2
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	160
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
	(7)	(8)	(9)	(mg/kg)
Soluble Aluminium (Al)	<300	<300	<300	70000
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) ++	<0.1	<0.1	<0.1	0.2
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	160
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

		Result (mg/kg)		Limit
	(10)	(11)	(12)	(mg/kg)
Soluble Aluminium (Al)	<300	<300	<300	70000
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) ++	<0.1	<0.1	<0.1	0.2
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	160
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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	(13)	(mg/kg)
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Soluble Antimony (Sb)	<10	560
Soluble Arsenic (As)	<10	47
Soluble Barium (Ba)	<10	18750
Soluble Boron (B)	<50	15000
Soluble Cadmium (Cd)	<5	17
Soluble Chromium (III) (Cr III) ++	<10	460
Soluble Chromium (VI) (Cr VI) ++	<0.1	0.2
Soluble Cobalt (Co)	<10	130
Soluble Copper (Cu)	<10	7700
Soluble Lead (Pb)	<10	160
Soluble Manganese (Mn)	18	15000
Soluble Mercury (Hg)	<10	94
Soluble Nickel (Ni)	<10	930
Soluble Selenium (Se)	<10	460
Soluble Strontium (Sr)	<100	56000
Soluble Tin (Sn)	<10	180000
Soluble Organic tin ++	<2.0	12
Soluble Zinc (Zn)	<100	46000

	Result (mg/kg)			Limit
	(14)	(15)	(16)	(mg/kg)
Soluble Aluminium (Al)	<300	<300	<300	70000
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
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Soluble Chromium (VI) (Cr VI) ++	<0.1	<0.1	<0.1	0.2
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	160
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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	(17)	(18)	(19)	(mg/kg)
Soluble Aluminium (Al)	<300	<300	<300	70000
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	<10	18750
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Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	160
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

	Result (mg/kg)			Limit
	(20)	(21)	(22)	(mg/kg)
Soluble Aluminium (Al)	<300	<300	<300	70000
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
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Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	160
Soluble Manganese (Mn)	<10	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	<10	<10	<10	930
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		Result (mg/kg)		Limit
	(23)	(24)	(25)	(mg/kg)
Soluble Aluminium (AI)	<300	<300	<300	70000
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) ++	<0.1	<0.1	<0.1	0.2
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	160
Soluble Manganese (Mn)	<10	<10	<10	15000
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Soluble Organic tin ++	<2.0	<2.0	<2.0	12
Soluble Zinc (Zn)	<100	<100	<100	46000

mg/kg = milligram per kilogram

: Unless the test results were marked with "^" or "\(\Delta \)", Chromium (III) & Chromium (VI) and Organic tin contents were not directly determined and were derived from migration results of total chromium and tin respectively.

Organic tin test result was expressed as tributyl tin.



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Tested Components:

- (1) Black coating on plastic (face deco).
- (2) Green plastic (cube + lid).
- (3) Red plastic (axle).
- (4) Black plastic (wheels).
- (5) Blue plastic (girl face).
- (6) Red plastic (bucket).
- (7) Yellow plastic (bucket lid).
- (8) Blue plastic (handle).
- (9) Pink plastic (bucket).
- (10) Dark pink plastic (bucket lid).
- (11) Purple plastic (handle).
- (12) Paper label with coatings (lid label (beginner box), bucket labels (beginner box)).
- (13) White paper sheet with coatings (instruction leaflets).
- (14) Green plastic (large rectangle).
- (15) Yellow plastic (short rectangle, base plate).
- (16) Red plastic (baby face, disc with hole, big window, semi circle, beginner box lid).
- (17) Blue plastic (small triangle, convex).
- (18) Orange plastic (boy face, disc, small square, stick).
- (19) Purple plastic (small window).
- (20) Brown plastic (hair of father head).
- (21) Pale pink plastic (face of father head, mother head).
- (22) Pale yellow plastic (hair of mother head).
- (23) White plastic (boy/baby/girl face).
- (24) Pink plastic (boy/baby/girl face).
- (25) Pale purple plastic (boy/girl face).

Date sample received: Jun 29, 2016 and Jul 15, 2016

Test Period: Jun 29, 2016 to Jul 15, 2016



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HKGH0198876806 S1 **Test Report** Number:

(4) 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	0.1
(2/3/4)	ND	0.01
(5/6/7)	ND	0.01
(8/9)	ND	0.01
(10/11)	ND	0.01
(12)	ND	0.1
(13)	ND	0.1
(14/15/16)	ND	0.01
(17/18/19)	ND	0.01
(20/21/22)	ND	0.01
(23/24/25)	ND	0.01

ND Not detected (< 0.0005%)



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Test Report Number: HKGH0198876806 S1

Tested Components:

- (1) Black coating on plastic (face deco).
- (2) Green plastic (cube + lid).
- (3) Red plastic (axle).
- (4) Black plastic (wheels).
- (5) Blue plastic (girl face).
- (6) Red plastic (bucket).
- (7) Yellow plastic (bucket lid).
- (8) Blue plastic (handle).
- (9) Pink plastic (bucket).
- (10) Dark pink plastic (bucket lid).
- (11) Purple plastic (handle).
- (12) Coatings on paper label (lid label (beginner box), bucket labels (beginner box)).
- (13) Coatings on paper sheet (instruction leaflets).
- (14) Green plastic (large rectangle).
- (15) Yellow plastic (short rectangle, base plate).
- (16) Red plastic (baby face, disc with hole, big window, semi circle, beginner box lid).
- (17) Blue plastic (small triangle, convex).
- (18) Orange plastic (boy face, disc, small square, stick).
- (19) Purple plastic (small window).
- (20) Brown plastic (hair of father head).
- (21) Pale pink plastic (face of father head, mother head).
- (22) Pale yellow plastic (hair of mother head).
- (23) White plastic (boy/baby/girl face).
- (24) Pink plastic (boy/baby/girl face).
- (25) Pale purple plastic (boy/girl face).

Date sample received: Jun 29, 2016 and Jul 15, 2016

Test Period: Jun 29, 2016 to Jul 15, 2016



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HKGH0198876806 S1 **Test Report** Number:

(5)**Phthalate Content Test**

Test Method: EN14372, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Six Phthalate content:

Compounds		Limit (%,		
	(1)	(2/3/4)	(5/6/7)	w/w)
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	
Sum of DBP,DEHP & BBP	<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

Compounds	Result (%, w/w)			
	(8/9)	(10/11)	(12)	w/w)
Dibutyl phthalate (DBP)	< 0.01	<0.01	< 0.01	
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	0.04	
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01	
Sum of DBP,DEHP & BBP	<0.01	<0.01	0.04	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

Compounds	Result	Result (%, w/w)		
	(13)	(14)	w/w)	
Dibutyl phthalate (DBP)	<0.01	<0.01		
Diethyl hexyl phthalate (DEHP)	0.02	0.08		
Benzyl butyl phthalate (BBP)	<0.01	<0.01		
Sum of DBP,DEHP & BBP	0.02	0.08	0.1	
Diisononyl phthalate (DINP)	<0.01	<0.01		
Di-n-octyl phthalate (DnOP)	<0.01	<0.01		
Diisodecyl phthalate (DIDP)	<0.01	<0.01		
Sum of DINP, DnOP & DIDP	<0.01	<0.01	0.1	



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Compounds		Limit (%,		
	(15/16/17)	(18/19/20)	(21/22)	w/w)
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	
Sum of DBP,DEHP & BBP	<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

Compounds	Result (Result (%, w/w)			
	(23/24)	(25/26)	w/w)		
Dibutyl phthalate (DBP)	<0.01	<0.01			
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01			
Benzyl butyl phthalate (BBP)	<0.01	<0.01			
Sum of DBP,DEHP & BBP	<0.01	<0.01	0.1		
Diisononyl phthalate (DINP)	<0.01	<0.01			
Di-n-octyl phthalate (DnOP)	<0.01	<0.01			
Diisodecyl phthalate (DIDP)	<0.01	<0.01			
Sum of DINP, DnOP & DIDP	<0.01	<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 for phthalate content in toys and childcare articles.



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Test Report Number: HKGH0198876806 S1

Tested Components:

- (1) Black coating on plastic (face deco).
- (2) Green plastic (cube + lid).
- (3) Red plastic (axle).
- (4) Black plastic (wheels).
- (5) Blue plastic (girl face).
- (6) Red plastic (bucket).
- (7) Yellow plastic (bucket lid).
- (8) Blue plastic (handle).
- (9) Pink plastic (bucket).
- (10) Dark pink plastic (bucket lid).
- (11) Purple plastic (handle).
- (12) Coatings on paper label (lid label (beginner box), bucket labels (beginner box)).
- (13) Paper label excluding coatings (lid label (beginner box), bucket labels (beginner box)).
- (14) Coatings on paper sheet (instruction leaflets).
- (15) Green plastic (large rectangle).
- (16) Yellow plastic (short rectangle, base plate).
- (17) Red plastic (baby face, disc with hole, big window, semi circle, beginner box lid).
- (18) Blue plastic (small triangle, convex).
- (19) Orange plastic (boy face, disc, small square, stick).
- (20) Purple plastic (small window).
- (21) Brown plastic (hair of father head).
- (22) Pale yellow plastic (hair of mother head).
- (23) Pale pink plastic (face of father head, mother head).
- (24) White plastic (boy/baby/girl face).
- (25) Pink plastic (boy/baby/girl face).
- (26) Pale purple plastic (boy/girl face).

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(6)**Toxic Elements Analysis**

Test Method: 94/62/EC and amendment 2013/2/EU & Directive (EU) 2015/720 Directive on packaging and packaging waste, acid digestion method was used and toxic elements contents were determined by Inductively Coupled Argon Plasma Spectrometry, and Hexavalent Chromium content was determined by UV-Visible Spectrophotometry.

	Result (ppm)			Limit
	(1)	(2)	(3/4)	(ppm)
Total Lead (Pb)	<5	<5	<5	
Total Cadmium (Cd)	<5	<5	<5	
Total Mercury (Hg)	<5	<5	<5	
Chromium VI (Cr (VI))	<1	<1	<1	
Sum of Lead, Cadmium, Mercury	<16	<16	<16	100
and Chromium Cr (VI)				

ppm = parts per million = mg/kg

Tested Components:

- (1) Coatings on paper board (folding box packaging (beginner box), folding box packaging (build it
- (2)Brown paper board excluding coatings (folding box packaging (beginner box), folding box packaging (build it big)).
- (3)Transparent plastic sheet with black coating (polybag)(packaging).
- (4)White plastic (plastic strip)(packaging).

Date sample received: Jun 29, 2016 and Jul 15, 2016

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(7) Polycyclic Aromatic Hydrocarbons (PAH) Content

Test method: Solvent extraction and determined by Gas Chromatographic - Mass Spectrometry (GC/MS).

Compound		Result (ppm)				
	(1/2/3)	(4/5/6)	(7/8/9)	(10/11)	(12/13)	(ppm)
Benzo(a)pyrene	<0.10	<0.10	<0.10	<0.10	<0.10	0.5
Benzo(e)pyrene	<0.10	<0.10	<0.10	<0.10	<0.10	0.5
Benzo(a)anthracene	<0.10	<0.10	<0.10	<0.10	<0.10	0.5
Chrysene	<0.10	<0.10	<0.10	<0.10	<0.10	0.5
Benzo(b)fluoranthene	<0.10	<0.10	<0.10	<0.10	<0.10	0.5
Benzo(j)fluoranthene	<0.10	<0.10	<0.10	<0.10	<0.10	0.5
Benzo(k)fluoranthene	<0.10	<0.10	<0.10	<0.10	<0.10	0.5
Dibenzo(a,h)anthracene	<0.10	<0.10	<0.10	<0.10	<0.10	0.5

Compound		Result (ppm)				
	(14/15/16)	(17/18/19)	(20/21/22)	(23/24/25)	(ppm)	
Benzo(a)pyrene	<0.10	<0.10	<0.10	<0.10	0.5	
Benzo(e)pyrene	<0.10	<0.10	<0.10	<0.10	0.5	
Benzo(a)anthracene	<0.10	<0.10	<0.10	<0.10	0.5	
Chrysene	<0.10	<0.10	<0.10	<0.10	0.5	
Benzo(b)fluoranthene	<0.10	<0.10	<0.10	<0.10	0.5	
Benzo(j)fluoranthene	<0.10	<0.10	<0.10	<0.10	0.5	
Benzo(k)fluoranthene	<0.10	<0.10	<0.10	<0.10	0.5	
Dibenzo(a,h)anthracene	<0.10	<0.10	<0.10	<0.10	0.5	

Remark: ppm = parts per million = mg/kg

Detection limit = 0.1 ppm

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).



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Tested components:

- Black coating on plastic (face deco).
- (2) (3) Coatings on paper label (lid label (beginner box), bucket labels (beginner box)).
- Coatings on paper sheet (instruction leaflets).
- (4)Green plastic (cube + lid).
- Red plastic (axle).
- Black plastic (wheels).
- (5) (6) (7) Blue plastic (girl face). Red plastic (bucket).
- (8)
- Yellow plastic (bucket lid).
- Blue plastic (handle). (10)
- (11) Pink plastic (bucket).
- (12) Dark pink plastic (bucket lid).
- (13)Purple plastic (handle).
- (14) Green plastic (large rectangle).
- (15)Yellow plastic (short rectangle, base plate).
- (16)Red plastic (baby face, disc with hole, big window, semi circle, beginner box lid).
- Blue plastic (small triangle, convex). (17)
- (18)Orange plastic (boy face, disc, small square, stick).
- (19)Purple plastic (small window).
- (20)Brown plastic (hair of father head).
- (21)Pale pink plastic (face of father head, mother head).
- (22)Pale yellow plastic (hair of mother head).
- (23)White plastic (boy/baby/girl face).
- (24) Pink plastic (boy/baby/girl face).
- (25) Pale purple plastic (boy/girl face).

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(8)**Monomers Migration**

Test Standard: EN71 Part 10 and 11.

Compounds	Result in mg/l			Limit in mg/l
	(1/2)	(3/4)	(5/6)	
Acrylamide	<0.02	<0.02	<0.02	0.02 (max.)
Bisphenol A	<0.05	<0.05	< 0.05	0.1 (max.)
Formaldehyde	<0.5	<0.5	<0.5	2.5 (max.)
Phenol	<5	<5	<5	15 (max.)
Styrene	<0.2	<0.2	<0.2	0.75 (max.)

Tested components:

- Green plastic (cube + lid).
- (2) Blue plastic (handle).
- (3) Green plastic (large rectangle).
- (4) Red plastic (baby face, disc with hole, big window, semi circle, beginner box lid) .
- (5)Brown plastic (hair of father head).
- Pale pink plastic (face of father héad, mother head) .

Date sample received : Jun 29, 2016 and Jul 15, 2016

Testing period: Jun 29, 2016 to Jul 19, 2016

(9)**Plasticizer Migration**

Test Standard: EN71 Part 10 and 11.

Compounds		Result (mg/l)		
Compounds	(1/2)	(3/4)	(5/6)	
Triphenyl phosphate	< 0.03	< 0.03	< 0.03	0.03 (max.)
Tri-o-cresyl phosphate	< 0.03	< 0.03	< 0.03	0.03 (max.)
Tri-m-cresyl phosphate	< 0.03	< 0.03	< 0.03	0.03 (max.)
Tri-p-cresyl phosphate	< 0.03	< 0.03	< 0.03	0.03 (max.)

Tested components:

- Green plastic (cube + lid).
- (2)Blue plastic (handle).
- Green plastic (large rectangle). (3)
- Red plastic (baby face, disc with hole, big window, semi circle, beginner box lid). (4)
- Brown plastic (hair of father head).
- Pale pink plastic (face of father héad, mother head) .

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Testing period: Jun 29, 2016 to Jul 19, 2016

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(10)Solvent Migration

Test Standard: EN71 Part 10 and 11.

Compounds	Result (mg/l)		Limit (mg/l)
Compounds	(1/2)	(3/4/5)	
Trichloroethylene	<0.02	<0.02	0.02 (max.)
Dichloromethane	< 0.03	< 0.03	0.06 (max.)
Methanol	<0.5	<0.5	5 (max.)
Nitrobenzene	<0.02	<0.02	0.02 (max.)
Cyclohexanone	<0.5	<0.5	46 (max.)
3,5,5-trimethyl-2-cyclohexane-1-one	<0.5	<0.5	3 (max.)
Toluene	<0.5	<0.5	2 (max.)
Ethylbenzene	<0.5	<0.5	1 (max.)
Xylene (all isomers)	<0.5	<0.5	2 (total) (max.)
Sum of (2-methoxyethyl acetate, 2-ethoxyethanol, 2-ethoxyethyl acetate, bis (2-methoxyethyl) ether, 2-methoxypropyl acetate	<0.3	<0.3	0.5 (total) (max.)

Compounds	Result (mg/l)		Limit (mg/l)
Compounds	(6/7)	(8/9/10)	
Trichloroethylene	<0.02	<0.02	0.02 (max.)
Dichloromethane	< 0.03	< 0.03	0.06 (max.)
Methanol	<0.5	<0.5	5 (max.)
Nitrobenzene	<0.02	<0.02	0.02 (max.)
Cyclohexanone	<0.5	<0.5	46 (max.)
3,5,5-trimethyl-2-cyclohexane-1-one	<0.5	<0.5	3 (max.)
Toluene	<0.5	<0.5	2 (max.)
Ethylbenzene	<0.5	<0.5	1 (max.)
Xylene (all isomers)	<0.5	<0.5	2 (total) (max.)
Sum of (2-methoxyethyl acetate, 2-ethoxyethanol, 2-ethoxyethyl acetate, bis (2-methoxyethyl) ether, 2-methoxypropyl acetate	<0.3	<0.3	0.5 (total) (max.)



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Compounds	Resul	Limit (mg/l)	
Compounds	(11/12)	(13/14/15)	
Trichloroethylene	<0.02	<0.02	0.02 (max.)
Dichloromethane	< 0.03	< 0.03	0.06 (max.)
Methanol	<0.5	<0.5	5 (max.)
Nitrobenzene	<0.02	<0.02	0.02 (max.)
Cyclohexanone	<0.5	<0.5	46 (max.)
3,5,5-trimethyl-2-cyclohexane-1-one	<0.5	<0.5	3 (max.)
Toluene	<0.5	<0.5	2 (max.)
Ethylbenzene	<0.5	<0.5	1 (max.)
Xylene (all isomers)	<0.5	<0.5	2 (total) (max.)
Sum of (2-methoxyethyl acetate, 2-ethoxyethanol, 2-ethoxyethyl acetate, bis (2- methoxyethyl) ether, 2-methoxypropyl acetate	<0.3	<0.3	0.5 (total) (max.)

Compounds	Result (mg/l)			Limit (mg/l)
Compounds	(16/17/18)	(19/20)	(21/22)	
Trichloroethylene	< 0.02	< 0.02	<0.02	0.02 (max.)
Dichloromethane	< 0.03	< 0.03	<0.03	0.06 (max.)
Methanol	<0.5	<0.5	<0.5	5 (max.)
Nitrobenzene	< 0.02	< 0.02	<0.02	0.02 (max.)
Cyclohexanone	<0.5	<0.5	<0.5	46 (max.)
3,5,5-trimethyl-2-cyclohexane-1-one	<0.5	<0.5	<0.5	3 (max.)
Toluene	<0.5	<0.5	<0.5	2 (max.)
Ethylbenzene	<0.5	<0.5	<0.5	1 (max.)
Xylene (all isomers)	<0.5	<0.5	<0.5	2 (total) (max.)
Sum of (2-methoxyethyl acetate, 2-ethoxyethanol, 2-ethoxyethyl acetate, bis (2-methoxyethyl) ether, 2-methoxypropyl acetate	<0.3	<0.3	<0.3	0.5 (total) (max.)



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Tested component:

- Green plastic (cube + lid).
- Blue plastic (handle).
- Red plastic (axle).
- (2) (3) (4) (5) (6) (7) Black plastic (wheels).
- Blue plastic (girl face).
- Red plastic (bucket).
- Yellow plastic (bucket lid).
- Pink plastic (bucket).
- (8) (9) Dark pink plastic (búcket lid).
- (10) Purple plastic (handle).
- (11) Green plastic (large réctangle).
- (12)Red plastic (baby face, disc with hole, big window, semi circle, beginner box lid) .
- Yellow plastic (short rectangle, base plate) . (13)
- Blue plastic (small triangle, convex)
- (14) (15) Orange plastic (boy face, disc, small square, stick) . Purple plastic (small window) .
- (16)
- (17) Pale yellow plastic (hair of mother head) .
- (18)White plastic (boy/baby/girl face).
- Brown plastic (hair of father head) . (19)
- (20) Pale pink plastic (face of father head, mother head)
- (21) Pink plastic (boy/baby/girl face) .
- (22)Pale purple plastic (boy/girl face).

Date sample received: Jun 29, 2016 and Jul 15, 2016

Testing period : Jun 29, 2016 to Jul 19, 2016



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HKGH0198876806 S1 **Test Report** Number:

(11)**Primary Aromatic Amines**

Test Standard: EN71 Part 10 & 11.

Compounds	Result	Limit (mg/kg)	
'	(1)	(2)	Limit (mg/kg)
Benzidine	<5	<5	5 (max.)
2-naphthylamine	<5	<5	5 (max.)
4-chloroaniline	<5	<5	5 (max.)
3,3'-dichlorobenzidine	<5	<5	5 (max.)
3,3'-dimethoxybenzidine	<5	<5	5 (max.)
3,3'-dimethylbenzidine	<5	<5	5 (max.)
O-toluidine	<5	<5	5 (max.)
2-methoxyaniline (o-anisidine)	<5	<5	5 (max.)
Aniline	<5	<5	5 (max.)

Tested components:

Paper label with coatings (lid label (beginner box), bucket labels (beginner box)). (7) (8)

White paper sheet with coatings (instruction leaflets).

Date sample received: Jun 29, 2016

Testing period: Jun 29, 2016 to Jul 07, 2016



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(12)Colourants

Test Standard: EN71 Part 10 & 11.

Compounds	Result in	Result in mg/kg		
•	(1)	(2)		
Disperse Blue 1	<10	<10	10 (max)	
Disperse Blue 3	<10	<10	10 (max)	
Disperse Blue 106	<10	<10	10 (max)	
Disperse Blue 124	<10	<10	10 (max)	
Disperse Yellow 3	<10	<10	10 (max)	
Disperse Orange 3	<10	<10	10 (max)	
Disperse Orange 37/76	<10	<10	10 (max)	
Disperse Red 1	<10	<10	10 (max)	
Solvent Yellow 1	<10	<10	10 (max)	
Solvent Yellow 2	<10	<10	10 (max)	
Solvent Yellow 3	<10	<10	10 (max)	
Basic Red 9	<10	<10	10 (max)	
Basic Violet 1	<10	<10	10 (max)	
Basic Violet 3	<10	<10	10 (max)	
Acid Red 26	<10	<10	10 (max)	
Acid Violet 49	<10	<10	10 (max)	

Tested components:

Paper label with coatings (lid label (beginner box), bucket labels (beginner box)).

White paper sheet with coatings (instruction leaflets). (2)

Date sample received : Jun 29, 2016 Testing period : Jun 29, 2016 to Jul 06, 2016



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Hong Kong Toys Council

Number: HKGH0198876806 S1 **Test Report**

Formaldehyde Content (13)

Test Standard: EN645 and EN1541.

Tested Component	Result (mg/kg)	Limit (mg/kg)
(1/2)	< 5	30 (max.)

Remark:

mg/kg = milligram per kilogram

Tested components:

- Paper label with coatings (lid label (beginner box), bucket labels (beginner box)). (1)
- (2)White paper sheet with coatings (instruction leaflets).

Date sample received: Jun 29, 2016

Testing period: Jun 29, 2016 to Jul 05, 2016

End of report

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Intertek Testing Services Hong Kong Ltd.

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To:

Hong Kong Association for Testing, Inspection and Certification Limited Hong Kong Toys Council

FLAIR LEISURE PRODUCTS PLC

Ref:

FC-2016-8193

(GIOCHI PREZIOSI)

Attention:

ANDREW MCKAY

Date:

Jul 27, 2016

Re: Report Revision Notification

Intertek Testing Services Report Number HKGH0198876806 & 08 Dated Jul 26, 2016

Please be informed that all the content recorded in the above captioned report will be void. This captioned report is now superseded by a revised Intertek Testing Services report, HKGH0198876806 & 08 S1.

Thank you for your attention.

For and on behalf of:

Intertek Testing Services HK Ltd.

Angel Y.F. Cheung Vice President



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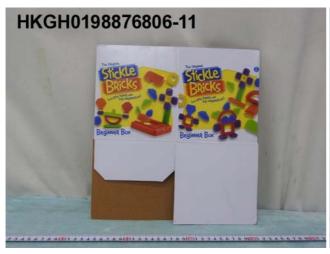
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HKGH0198876806 Number:









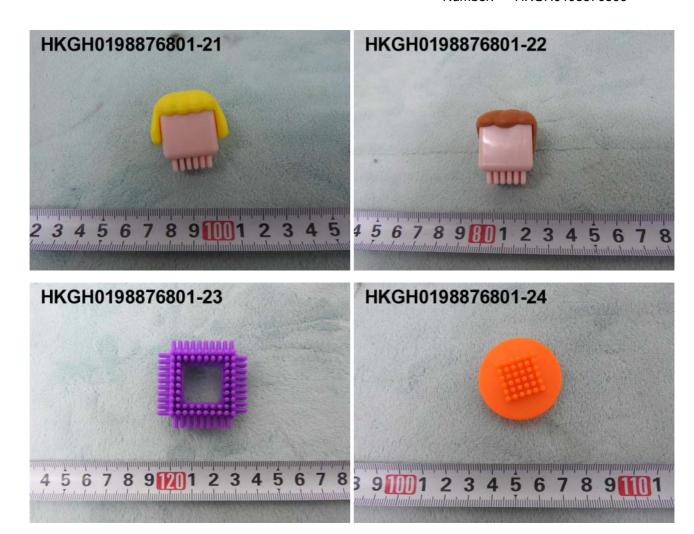




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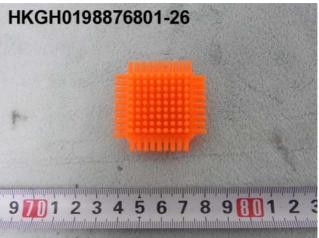


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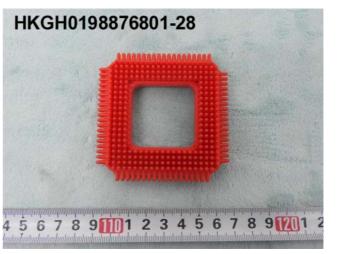
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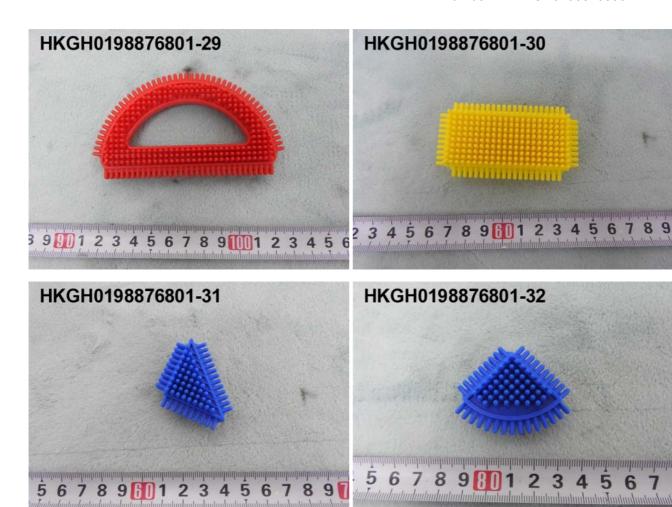




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