



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  
Hong Kong Toys Council

**Test Report**

Number: HKGH0152418803 S1

**Conclusion:**

Tested Samples  
Submitted samples

Standard  
EN71-1 : 2011 for mechanical and physical properties

Result  
Pass

EN71-2 : 2011 for Flammability test

Pass

Tested components of  
submitted samples

EN71-3 : 2013 for migration of certain elements

Pass

Cadmium content requirement in Annex XVII Item 23 of  
the REACH Regulation (EC) No.1907/2006 &  
amendment No. 494/2011

Pass

U.S. Consumer Product Safety Improvement Act 2008  
Title I, Section 108 for Phthalate content

Pass

Phthalate content requirement in 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

See Details Enclosed

Di-n-hexyl phthalate (DnHP) content

See Details Enclosed

Phthalates content requirement in Annex XVII Items 51 &  
52 of the REACH Regulation (EC) no. 1907/2006 &  
amendment no. 552/2009 (formerly known as Directive  
2005/84/EC)

Pass

Diisobutyl phthalate (DIBP) content

See Details Enclosed

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

Angel Y.F. Cheung  
Vice President



Members of:

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

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

**Test Report**

Number: HKGH0152418803 S1

Tests Conducted

1 Mechanical and Physical Test

As per European Standard on Safety of toys EN71-1 : 2011.

Applicant's specified age group for testing : Ages over 18 months.

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	Testing items	Assessment
4	General requirements	
4.1	Material	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 in the 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	P
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	



**Test Report**

Number: HKGH0152418803 S1

Tests Conducted

Clause	Testing items	Assessment
5.1	General requirements for children under 36 months	P
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	P
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	P
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, inlineskates and skateboards and certain other ride-on toys	NA
7.11	Toys intended to be attached to 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





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  
 Hong Kong Toys Council

**Test Report**

Number: HKGH0152418803 S1

Tests Conducted

Clause	Testing items	Assessment
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

Remark : P = Pass NA = Not Applicable

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

1. 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:

- Product identification code was on the packaging only.

2. 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 found on the submitted samples.

Date sample received : Jul 13, 2013  
 Testing period : Jul 13, 2013 to Jul 18, 2013

2 Flammability Test

As per European Standard on Safety of Toys EN71-2:2011

Clause	Testing items	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

Remark : P = Pass NA= Not applicable

Date sample received : Jul 13, 2013  
 Testing period : Jul 13, 2013 to Jul 18, 2013

\*\*\*\*\*



**Test Report**

Number: HKGH0152418803 S1

Tests Conducted

3 19 Toxic Element Migration Test

(A) Test Result

As per EN71-3:2013

Category (III): Scraped-off toy material

Element	Result (mg/kg)			Limit (mg/kg)
	(1)	(2)	(3)	
Aluminium (Al)	< 300	< 300	< 300	70000
Antimony (Sb)	< 10	< 10	< 10	560
Arsenic (As)	< 10	< 10	< 10	47
Barium (Ba)	< 10	< 10	< 10	18750
Boron (B)	< 50	< 50	< 50	15000
Cadmium (Cd)	< 5	< 5	< 5	17
Chromium (III) (Cr III)	<10	<10	<10	460
Chromium (VI) (Cr VI)	< 0.2	< 0.2	< 0.2	0.2
Cobalt (Co)	< 10	< 10	< 10	130
Copper (Cu)	< 10	< 10	< 10	7700
Lead (Pb)	< 10	< 10	< 10	160
Manganese (Mn)	< 10	< 10	< 10	15000
Mercury (Hg)	< 10	< 10	< 10	94
Nickel (Ni)	< 10	< 10	< 10	930
Selenium (Se)	< 10	< 10	< 10	460
Strontium (Sr)	< 100	< 100	< 100	56000
Tin (Sn)	< 10	< 10	< 10	180000
Organic tin	< 3.0	< 3.0	< 3.0	12
Zinc (Zn)	< 100	240	< 100	46000

Remark : mg/kg = milligram per kilogram

- Organic tin test result was expressed as tributyl tin.

- Unless specified, determination of Chromium (III), Chromium (VI) and Organic tin was based on elemental analysis.

Tested Components :

(1) Transparent plastic (body).

(2) Dull blue plastic (ring).

(3) Bright yellow plastic (ends).

\*\*\*\*\*





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  
Hong Kong Toys Council

**Test Report**

Number: HKGH0152418803 S1

Tests Conducted

**(B) Categories of various toy materials**

**Category I: Dry, brittle, powder like or pliable**

Solid toy material from which powder-like material is released during playing and semi-solid materials that may also leave residues on the hands during play. The material can be ingested. Contamination of the hands with the material may contribute to the oral exposure of the material. (e.g. the cores of colouring pencils, chalk, crayons, modelling clays and plaster).

**Category II: Liquid or sticky**

Fluid or viscous toy material, which can be ingested or to which dermal exposure may occur during playing. (e.g. liquid paints, finger paints, liquid ink in pens, glue sticks, slimes, bubble solution).

**Category III : Scraped-off**

Solid toy material with or without a coating, which can be ingested as a result of biting, tooth scraping, sucking or licking. (e.g. coatings, lacquers, plastics, paper, textiles, glass, ceramic, metallic, wooden, bone, leather and other materials).

Date sample received : Jul 13, 2013

Testing period : Jul 13, 2013 to Jul 17, 2013

\*\*\*\*\*



## Test Report

Number: HKGH0152418803 S1

### Tests Conducted

#### 4 Cadmium (Cd) Content

As per Cadmium content requirement in Commission Regulation (EU) No. 494/2011 amending Annex XVII Item 23 of the REACH Regulation (EC) No. 1907/2006, acid digestion method was used and total Cadmium content was determined by Inductively Coupled Argon Plasma Spectrometry.

<u>Tested Component</u>	<u>Result in %</u>
(1/2/3)	ND
(4/5/6)	ND
(7/8/9)	ND
(10/11/12)	ND

#### Limit:

Category	Limit (%)
Wet paint	Not permitted
Surface coating	0.1
Plastic	0.01
Metal parts of jewelry & hair accessories	0.01

ND = Not detected (< 0.0005%)

#### Tested Components :

- (1) Transparent plastic (body).
- (2) Dull blue plastic (ring).
- (3) Bright yellow plastic (ends).
- (4) Aqua plastic (spinner) (internal).
- (5) Light orange plastic (spinner) (internal).
- (6) Yellow plastic (spinner) (internal).
- (7) Light green plastic (holder, plate) (internal).
- (8) Orange plastic (plate) (internal).
- (9) Shiny orange plastic (beads) (internal).
- (10) Shiny yellow plastic (beads) (internal).
- (11) Shiny green plastic (beads) (internal).
- (12) Shiny blue plastic (beads) (internal).

Date sample received : Jul 13, 2013

Testing period : Jul 13, 2013 to Jul 17, 2013

\*\*\*\*\*





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  
Hong Kong Toys Council

**Test Report**

Number: HKGH0152418803 S1

Tests Conducted

5 Phthalate Content Test

As per Standard Operating Procedure for Determining Phthalates, test method CPSC-CH-C1001-09.3 was used and phthalate content was determined by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

	<u>Result (% w/w)</u>	<u>Limit (% w/w)</u> <u>(max.)</u>
	<u>(1/2/3)</u>	
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)	<0.01	0.1
Di-n-octyl phthalate (DnOP)	<0.01	0.1
Diisodecyl phthalate (DIDP)	<0.01	0.1

Remark : The above limit was quoted according to US Consumer Product Safety Improvement Act 2008 for prohibition on sale of certain products containing specified phthalates.

Tested Components :

- (1) Transparent plastic (body).
- (2) Dull blue plastic (ring).
- (3) Bright yellow plastic (ends).

Date sample received : Jul 13, 2013  
Testing period : Jul 13, 2013 to Jul 17, 2013

\*\*\*\*\*



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  
Hong Kong Toys Council

## Test Report

Number: HKGH0152418803 S1

### Tests Conducted

#### 6 Phthalate Content Test

By solvent extraction and Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

	<u>Result (% w/w)</u>	<u>Limit (% w/w)</u> <u>(max.)</u>
	<u>(1/2/3)</u>	
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

Remark : 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) based on the California Proposition 65.

Tested Components :

- (1) Transparent plastic (body).
- (2) Dull blue plastic (ring).
- (3) Bright yellow plastic (ends).

Date sample received : Jul 13, 2013  
Testing period : Jul 13, 2013 to Jul 17, 2013

#### 7 Di-n-hexyl Phthalate (DnHP) Content

By solvent extraction and followed by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

<u>Tested Component</u>	<u>Result (% w/w)</u>
<u>(1/2/3)</u>	<0.01

Tested Components :

- (1) Transparent plastic (body).
- (2) Dull blue plastic (ring).
- (3) Bright yellow plastic (ends).

Date sample received : Jul 13, 2013  
Testing period : Jul 13, 2013 to Jul 17, 2013

\*\*\*\*\*





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  
 Hong Kong Toys Council

**Test Report**

Number: HKGH0152418803 S1

Tests Conducted

8 Phthalate Content Test

With reference to EN14372, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

	Result (% w/w)				Limit (% w/w)
	(1/2/3)	(4/5/6)	(7/8/9)	(10/11/12)	(max.)
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01	<0.01	--
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	<0.01	<0.01	--
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01	<0.01	--
Sum of DBP,DEHP & BBP	<0.01	<0.01	<0.01	<0.01	0.1
Di-iso-nonyl phthalate (DINP)	<0.01	--	--	--	--
Di-n-octyl phthalate (DnOP)	<0.01	--	--	--	--
Di-iso-decyl phthalate (DIDP)	<0.01	--	--	--	--
Sum of DINP,DnOP & DIDP	<0.01	--	--	--	0.1

Remark : The above limit was quoted according to Annex XVII Items 51 & 52 of the REACH Regulation (EC) no. 1907/2006 & amendment no. 552/2009 (formerly known as Directive 2005/84/EC) for phthalate content in toys and childcare articles.

Tested components :

- (1) Transparent plastic (body).
- (2) Dull blue plastic (ring).
- (3) Bright yellow plastic (ends).
- (4) Aqua plastic (spinner) (internal).
- (5) Light orange plastic (spinner) (internal).
- (6) Yellow plastic (spinner) (internal).
- (7) Light green plastic (holder, plate) (internal).
- (8) Orange plastic (plate) (internal).
- (9) Shiny orange plastic (beads) (internal).
- (10) Shiny yellow plastic (beads) (internal).
- (11) Shiny green plastic (beads) (internal).
- (12) Shiny blue plastic (beads) (internal).

Date sample received : Jul 13, 2013  
 Testing period : Jul 13, 2013 to Jul 17, 2013

\*\*\*\*\*



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  
Hong Kong Toys Council

## Test Report

Number: HKGH0152418803 S1

### Tests Conducted

#### 9 Diisobutyl phthalate (DIBP) Content

By solvent extraction and followed by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

<u>Tested Component</u>	<u>Result (% w/w)</u>
(1/2/3)	<0.01
(4/5/6)	<0.01
(7/8/9)	<0.01
(10/11/12)	<0.01

#### Tested Components :

- (1) Transparent plastic (body).
- (2) Dull blue plastic (ring).
- (3) Bright yellow plastic (ends).
- (4) Aqua plastic (spinner) (internal).
- (5) Light orange plastic (spinner) (internal).
- (6) Yellow plastic (spinner) (internal).
- (7) Light green plastic (holder, plate) (internal).
- (8) Orange plastic (plate) (internal).
- (9) Shiny orange plastic (beads) (internal).
- (10) Shiny yellow plastic (beads) (internal).
- (11) Shiny green plastic (beads) (internal).
- (12) Shiny blue plastic (beads) (internal).

Date sample received : Jul 13, 2013

Testing period : Jul 13, 2013 to Jun 17, 2013

\*\*\*\*\*





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

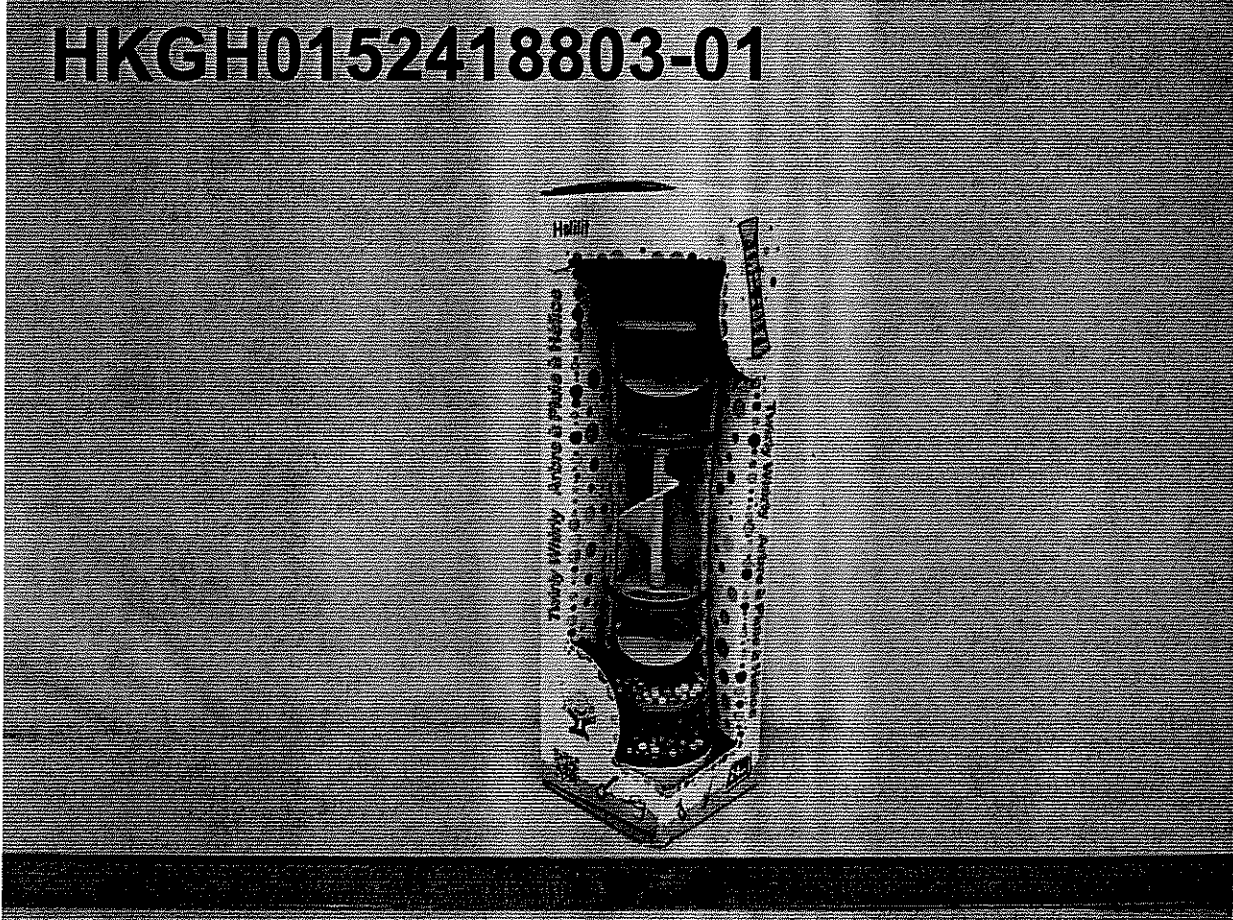
Members of:  
American National Standards Institute  
American Society for Testing and Materials  
British Standards Institute

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

**Test Report**

Number: HKGH0152418803 S1

Tests Conducted



\*\*\*\*\*  
End of report

*This report is made solely on the basis of your instructions and/or information and materials supplied by you. It is not intended to be a recommendation for any particular course of action. Intertek does not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as is expressly contained in the terms and conditions governing Intertek's provision of services to you. Intertek makes no warranties or representations either express or implied with respect to this report save as provided for in those terms and conditions. We have aimed to conduct the Review on a diligent and careful basis and we do not accept any liability to you for any loss arising out of or in connection with this report, in contract, tort, by statute or otherwise, except in the event of our gross negligence or wilful misconduct.*



