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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: HKGH01686202

Applicant:

Date: Aug 06, 2014

Attn: RICKY LO

Submitted sample said to be:

Item Name : Stats Zig A Zag Tunnel / Tunnel
Item No. : 5863
Reference No. : 1011, 1044, 2095, 2172, 2198
Quantity : 4 pieces
Labelled Age Group : "3+"
Packaging Provided : Yes
Country of Origin : China

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) EN71-1 : 2011 + A3 : 2014 - Mechanical and physical properties	Pass
(2) EN71-2 : 2011 + A1:2014 - Flammability test	Pass
(3) EN71-3 : 2013 - Migration of certain elements	Pass
(4) REACH Regulation (EC) no. 1907/2006, Annex XVII Items 51 & 52 & amendment no. 552/2009 (formerly known as Directive 2005/84/EC) - Phthalates content	Pass

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

Angel Y.F. Cheung
Vice President



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Intertek Testing Services Hong Kong Ltd.

2/F., Garment Centre, 576 Castle Peak Road, Kowloon, Hong Kong.
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(1) Mechanical and Physical Test

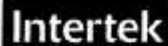
Test standard: European Standard on Safety of toys EN71-1 : 2011 + A3 : 2014

Age group for testing : Ages over 3 years.

The submitted samples were undergone the following abuse tests:	
<u>Clause</u>	<u>Testing items</u>
8.13	Flexibility of metallic wires (70 N)

Clause	Testing items	Assessment
4	General requirements	
4.1	Material	P
4.2	Assembly	P
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	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 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





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Clause	Testing items	Assessment
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
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 teething	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

Remark : P = Pass

NA = Not Applicable



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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:

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 the CE-marking was not visible from outside the packaging.

Date sample received : Jul 31, 2014

Testing period : Jul 31, 2014 to Aug 05, 2014

(2) Flammability Test

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

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	P#
4.5	Soft filled toys	NA

Remark : P = Pass

NA= Not applicable

= Washing method :

The test specimen was pre-washed according to the EN71-2 Clause 5.4.1 before testing.

Date sample received : Jul 31, 2014

Testing period : Jul 31, 2014 to Aug 04, 2014



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(3) 19 Toxic Element Migration Test

Test Standard: EN71-3:2013

Category (III): Scraped-off toy material

Element	Result (mg/kg)				Limit (mg/kg)
	(1)	(2)	(3)	(4)	
Aluminium (Al)	< 300	< 300	< 300	< 300	70000
Antimony (Sb)	< 10	< 10	< 10	< 10	560
Arsenic (As)	< 10	< 10	< 10	< 10	47
Barium (Ba)	< 10	< 10	< 10	< 10	18750
Boron (B)	< 50	< 50	< 50	< 50	15000
Cadmium (Cd)	< 5	< 5	< 5	< 5	17
Chromium (III) (Cr III) **	<10	<10	<10	<10	460
Chromium (VI) (Cr VI) **	< 0.1	< 0.1	< 0.1	< 0.1	0.2
Cobalt (Co)	< 10	< 10	< 10	< 10	130
Copper (Cu)	< 10	< 10	< 10	< 10	7700
Lead (Pb)	< 10	< 10	< 10	< 10	160
Manganese (Mn)	< 10	< 10	< 10	< 10	15000
Mercury (Hg)	< 10	< 10	< 10	< 10	94
Nickel (Ni)	< 10	< 10	< 10	< 10	930
Selenium (Se)	< 10	< 10	< 10	< 10	460
Strontium (Sr)	< 100	< 100	< 100	< 100	56000
Tin (Sn)	< 10	< 10	< 10	< 10	180000
Organic tin **	< 2.0	< 2.0	< 2.0	< 2.0	12
Zinc (Zn)	< 100	< 100	< 100	< 100	46000

Element	Result (mg/kg)				Limit (mg/kg)
	(5)	(6)	(7)	(8)	
Aluminium (Al)	< 300	< 300	< 300	< 300	70000
Antimony (Sb)	< 10	< 10	< 10	< 10	560
Arsenic (As)	< 10	< 10	< 10	< 10	47
Barium (Ba)	< 10	< 10	< 10	< 10	18750
Boron (B)	< 50	< 50	< 50	< 50	15000
Cadmium (Cd)	< 5	< 5	< 5	< 5	17
Chromium (III) (Cr III) **	<10	<10	<10	<10	460
Chromium (VI) (Cr VI) **	< 0.1	< 0.1	< 0.1	< 0.1	0.2
Cobalt (Co)	< 10	< 10	< 10	< 10	130
Copper (Cu)	< 10	< 10	< 10	< 10	7700
Lead (Pb)	< 10	< 10	< 10	< 10	160
Manganese (Mn)	< 10	< 10	< 10	< 10	15000
Mercury (Hg)	< 10	< 10	< 10	< 10	94
Nickel (Ni)	< 10	< 10	< 10	< 10	930
Selenium (Se)	< 10	< 10	< 10	< 10	460
Strontium (Sr)	< 100	< 100	< 100	< 100	56000
Tin (Sn)	< 10	< 10	< 10	< 10	180000
Organic tin **	< 2.0	< 2.0	< 2.0	< 2.0	12
Zinc (Zn)	< 100	< 100	< 100	< 100	46000



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Element	Result (mg/kg)			Limit (mg/kg)
	(9)	(10)	(11)	
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) **	< 0.1	< 0.1	< 0.1	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 **	< 2.0	< 2.0	< 2.0	12
Zinc (Zn)	< 100	< 100	< 100	46000

Remark : mg/kg = milligram per kilogram

** = Unless the test results were marked with "#" or "Δ", 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.

- As per General Court of the European Union Judgment in Case T-196/12 dated 14 May 2014, the General Court confirmed that Germany could maintain its limit value for Lead(Pb)(90mg/kg) in toys but not for Antimony (Sb), Arsenic (As), Mercury (Hg) and Barium (Ba).

Tested Components :

- (1) Coatings (black, white) on woven (sewn-in label).
- (2) Coatings on woven (sewn-in label).
- (3) White woven excluding coatings (sewn-in label).
- (4) Paper label with black printing (sticker).
- (5) Purple velcro (velcro on bag of tunnel).
- (6) Yellow webbing (handle of bag of tunnel).
- (7) Light yellow fabric with light yellow thread (binding of bag, body of tunnel).
- (8) Purple fabric with purple thread (bag, body of tunnel).
- (9) Yellow fabric with yellow thread (strap of tunnel).
- (10) Green fabric with green thread (body of tunnel).
- (11) Orange net (body of tunnel).

Date sample received : Jul 31, 2014

Testing period : Jul 31, 2014 to Aug 01, 2014



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(4) Phthalate Content Test

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

Compounds	Result (% w/w)		Limit (% w/w) (max.)
	(1)	(2)	
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
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) Coatings on woven (sewn-in label).
- (2) Translucent plastic (tube in frame of tunnel) (internal).

Date sample received : Jul 31, 2014

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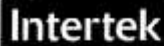
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End of report

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