



Test Report

Number: GZHH00152213

Applicant: GUANGZHOU PLATO PLASTIC CO., LTD
DAYUAN VILLAGE HENGLI TOWN NANSHA
DISTRICT GUANGZHOU CITY GUANGDONG
CHINA

Date: May 12, 2014

Attn: 郭隆胜

Sample Description:

One (1) submitted sample said to be **PVC Tarpaulin**

Vendor : Guangzhou Plato Plastic Co., Ltd
Country of Origin : China

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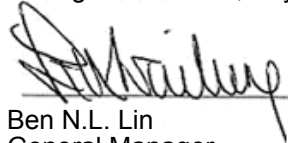


Tests conducted:

As requested by the applicant, refer to attached page(s) for details.

To be continued

Authorized by:
For Intertek Testing Services Shenzhen Ltd.
Guangzhou Branch, Toys & Hardlines



Ben N.L. Lin
General Manager



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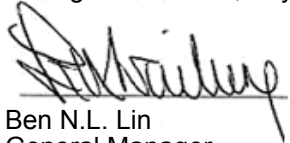
Conclusion:

<u>Tested Samples</u>	<u>Standard</u>	<u>Result</u>
Submitted sample	U.S. ASTM F963-11 Flammability test of materials other than textile materials	See Remark1
	U.S. ASTM F963-11 for heavy elements test	Pass
	EN71 Part 2 : 2011 Flammability test	See Remark2
	EN 71-3:2013 for migration of certain elements	Pass

Remark1: The submitted sample was examined unfinished product and was not subjected to the scope of ASTM Standard Consumer Safety Specification for Toy Safety F963-11. However, as requested by the applicant, the submitted sample was assessed under the requirement of ASTM Standard Consumer Safety Specification for Toy Safety F963-11 (of flammability requirement), and the result met the requirement of specification.

Remark2: The submitted sample was examined unfinished product and was not subjected to the scope of the European standard of toys EN71. However, as requested by the applicant, the submitted sample was assessed under the requirement of EN71 part 2, and the result met the requirement of the standard.

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Tests Conducted

1 Flammability Test

With reference to section 4.2 of the ASTM Standard Consumer Safety Specification on Toy Safety F963-11, the sample was tested according to Annex A5 Flammability Testing Procedure for Solids and Soft Toys.

Result: Ignited but self-extinguished before burn rate could be determined

Date sample received: May 06, 2014

Testing period: May 06, 2014 to May 10, 2014

2 Heavy Elements Analysis (except modelling clay)

As per Section 4.3.5 of the ASTM Standard Consumer Safety Specification on Toy Safety F963-11, acid extraction method was used and heavy elements migration content were determined by Inductively Coupled Argon Plasma Spectrometry.

	<u>Result (ppm)</u>	<u>Limit</u> <u>ppm</u>
Sol. Barium (Ba)	13	1000
Sol. Lead (Pb)	<5	90
Sol. Cadmium (Cd)	<5	75
Sol. Antimony (Sb)	<5	60
Sol. Selenium (Se)	<5	500
Sol. Chromium (Cr)	<5	60
Sol. Mercury (Hg)	<5	60
Sol. Arsenic (As)	<2.5	25

Sol. = Soluble

ppm = parts per million

Tested sample: Blue PVC plastic sheet with inaccessible white thread insert.

Date sample received : May 06, 2014

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3 Total Lead (Pb) Content

As per Section 4.3.5 of the ASTM Standard Consumer Safety Specification on Toy Safety F963-11, test method CPSC-CH-E1001-08.1, CPSC-CH-E1002-08.1 or/and CPSC-CH-E1003-09.1 were used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

(II) Non-surface coating

Result : Less than 10ppm

Limit : 100ppm

ppm = parts per million

Tested sample: Blue PVC plastic sheet with inaccessible white thread insert.

Date sample received : May 06, 2014

Testing period : May 06, 2014 to May 10, 2014

4 Flammability Test

With reference to European Standard on Safety of Toys EN71-2:2011

<u>Clause</u>	<u>Testing items</u>	<u>Assessment</u>
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 : May 06, 2014

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5 19 Toxic Element Migration Test

(A) Test Result

As per EN71-3:2013 and followed by Inductively Coupled Plasma Atomic Emission Spectrometry, Inductively Coupled Argon Mass Spectrometry.

Category (III): Scraped-off toy material

Element	Result (mg/kg)	Limit (mg/kg)
Aluminium (Al)	< 300	70000
Antimony (Sb)	< 10	560
Arsenic (As)	< 10	47
Barium (Ba)	13	18750
Boron (B)	< 50	15000
Cadmium (Cd)	< 5	17
Chromium (III) (Cr III)	<10	460
Chromium (VI) (Cr VI)	< 0.1	0.2
Cobalt (Co)	< 10	130
Copper (Cu)	< 10	7700
Lead (Pb)	< 10	160
Manganese (Mn)	< 10	15000
Mercury (Hg)	< 10	94
Nickel (Ni)	< 10	930
Selenium (Se)	< 10	460
Strontium (Sr)	< 100	56000
Tin (Sn)	< 10	180000
Organic tin	< 3.0	12
Zinc (Zn)	< 100	46000

Remark : mg/kg = milligram per kilogram

- Organic tin test result was expressed as tributyl tin.
- Unless the test results are marked with “#” or “Δ”, Chromium (III), Chromium (VI) and Organic tin were derived from migration results of total chromium and tin respectively.
- As per EC decision 2013/492/EU of 7 October 2013 and in accordance with the Court's Order of 15 May 2013 in case T-198/12R, the European Commission authorizes that the national provisions notified by the Federal Republic of Germany concerning limit values for Antimony (Sb) (60mg/kg), Arsenic (As) (25 mg/kg), Mercury (Hg) (60 mg/kg), Barium (Ba) (1000 mg/kg) and Lead (Pb) (90 mg/kg) in toys be maintained beyond 20 July 2013.

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(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).

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Testing period : May 06, 2014 to May 10, 2014

End of report

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