

Test Report

Number: SZHH00833687

Applicant: GUANG ZHOU SHIN DORN PLASTIC TOY CO.,LTD
NO. 2 COALMINE, HUANGBIAN, XINSHI TOWN,
GUANGZHOU, GUANGDONG

Date: Nov 27, 2013

Attn: LI JIANHUA

Sample Description:

Thirteen (13) pieces of submitted sample said to be :

Item Name : **Vinyl Repair Glue.**
Item No. : **59632,12002,13021,19017,18030,18031,19001.**
Buyer : Intex Industries (Xiamen) Co.,Ltd.



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.

Ben N.L. Lin
General Manager



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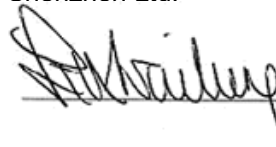

Conclusion:

<u>Tested sample</u>	<u>Standard</u>	<u>Result</u>
Tested component of submitted samples	EN 71-3:2013 for migration of certain elements	Pass
	Cadmium content requirement in REACH regulation Annex XVII Item 23 (EC) No 1907/2006 and amendment Nos 552/2009, 494/2011 and 835/2012	Pass
	U.S. Consumer Product Safety Improvement Act 2008 Title I, Section 101 for Total Lead content in Non-surface coating materials (substrate)	Pass

As requested by the applicant, total Cadmium content test was conducted only on component listed in this report. Other component were not tested.

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1 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, Ion Chromatography- Inductively Coupled Plasma-Mass Spectrometry, and Gas Chromatographic - 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)	< 10	18750
Boron (B)	< 50	15000
Cadmium (Cd)	< 5	17
Chromium (III) (Cr III)	<10	460
Chromium (VI) (Cr VI)	< 0.15	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 specified, test results of Chromium (III), Chromium (VI) and Organic tin were derived from migration results of total chromium and tin respectively.
- Migration of Chromium (III) = Migration of total Chromium – Migration of Chromium(VI), when performed confirmation test for Chromium (VI)
- 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.

Tested Component: Transparent glue (vinyl repair glue).

Remark : As requested by the applicant, toxic elements content test were conducted only components listed in this report. Other components were not tested.



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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).

Date sample received : Nov 22, 2013

Testing period : Nov 22, 2013 to Nov 26, 2013

2 Cadmium (Cd) Content

As per Cadmium content requirement in REACH regulation Annex XVII Item 23 (EC) No 1907/2006 and amendment Nos 552/2009, 494/2011 and 835/2012, acid digestion method was used and total Cadmium content was determined by Inductively Coupled Argon Plasma Spectrometry.

Result: 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 (Detection limit = 0.0005%)

Tested Component: Transparent glue (vinyl repair glue).

Date sample received : Nov 22, 2013

Testing period : Nov 22, 2013 to Nov 26, 2013





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

As per 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 were used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

Result: Less than 10ppm

Limit: 100ppm

ppm = parts per million

Tested Component: Transparent glue (vinyl repair glue).

Date sample received: Nov 22, 2013

Testing period: Nov 22, 2013 to Nov 26, 2013

End of report

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