

Applicant: DONGGUAN JIAN PLASTIC & METAL PRODUCTS LTD.
NO.3-1, SOUTH GAOBU BLVD
GAOBU, DONGGUAN, CHINA
ZIP CODE: 523278
Attn: LILY/NANCY

Date: Feb 08, 2018

Sample Description:

Several pieces of submitted samples said to be Black TPR rubber butterfly clutch materials.

Standard : --
Buyer's Name : WORLD WIDE
Colour : --
Vendor : WORLD WIDE
Manufacturer : CHINA
Supplier : CHINA
Style No./Name : --
P.O. No. : --
Ref. : TPR RUBBER BUTTERFLY CLUCH
AGE RANGE: 3+
Country Of Origin : MADE IN CHINA
Goods Exported To : WORLD WIDE
Date Received/Date Test Started : Jan 22, 2018
Date Final Information Confirmed: Jan 23, 2018

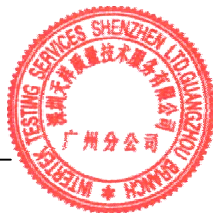
Conclusion:

<u>Index</u>	<u>Test Item</u>	<u>Result</u>
1.	19 Toxic Element Migration Test	Meet Applicant's Requirement
2.	Toxic Elements Analysis	Meet Applicant's Requirement
3.	Soluble Lead Content Test	Pass

Should You Have Any Query On This Report, You May Contact At Gzfootwear@Intertek.Com

Authorized By:
For Intertek Testing Services Shenzhen Ltd.
Guangzhou Branch

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Assistant General Manager



1 19 Toxic Element Migration Test

With Reference To EN71-3:2013+A1:2014 And Followed By Inductively Coupled Plasma Optical Emission Spectrometry (ICP/OES).

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) ⁺⁺	< 0.1	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

⁺⁺ = 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.

Tested Component: Black Plastic.

2 Toxic Elements Analysis

With Reference To Section 4.3.5 Of The ASTM Standard Consumer Safety Specification On Toy Safety ASTM F 963-16, Acid Digestion And Extraction Methods Were Used And Toxic Elements Content Were Determined By Inductively Coupled Argon Plasma Spectrometry.

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

Remark: Sol. = Soluble
 ND = Not Detected
 Detection Limit = 10 ppm
 ppm = Parts Per Million

Tested Component: Black Plastic.

3 Soluble Lead Content Test

Test Method: Japan Toy Safety Standard 2016 Part 3 Chemical Properties Clause 2.7, 2.12, Acid Extraction Method Was Used And Soluble Lead Content Was Determined By Inductively Coupled Argon Plasma Spectrometry.

<u>Result (mg/kg)</u>	<u>Requirement (mg/kg)</u>
<5	90

Remark: mg/kg = Milligram Per Kilogram

Tested Component: Black Plastic.

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GZHT90771287

