



TEST REPORT

Technical Report: (9314)003-0602

Jan 09, 2014

Date Received: Jan 03, 2014

Page 1 of 4

JOYCE LU
BRIGHTING INDUSTRIAL CO., LIMITED
NORTH INDUSTRIAL ZONE, JIMEI DISTRICT, XIAMEN CITY, FUJIAN PROVINCE

Sample Description: Sample(s) received is/are stated to be:
Red pawn

Color:	/	Style No(s):	/
Order No.:	/	PO No.:	/
Age Grade:	/	Product End Use:	/
Vendor:	/	Retest No.:	/
Manufacturer:	/	Supplier Reference:	/
Buyer:	/	Country of Origin:	/
Test Period:	Jan 03, 2014 to Jan 09, 2014	Country of Destination:	/
Fiber Content:	/		
Care Instruction:	/		

SAMPLE DESCRIPTION ASSIGNED BY LABORATORY

ITEM	ITEM DESCRIPTION
1	Red plastic (pawn)

SUMMARY OF TEST RESULTS

TEST REQUESTED	CONCLUSION	REMARK
MIGRATION OF CERTAIN ELEMENTS EN71 PART3:2013	PASS	

REMARK

If there are questions or concerns on this report, please contact:

(86)20-22902088
bvcps_pyinfo@cn.bureauveritas.com

BUREAU VERITAS CONSUMER PRODUCTS SERVICES (GUANGZHOU) CO., LTD

CHARLES WONG
ANALYTICAL LAB MANAGER

Bureau Veritas Consumer Products Services
(Guangzhou) Co., Ltd
No. 183, Shinan Road, Meilin Plaza Block B,
Dongchong, Panyu, Guangzhou, Guangdong
Province, China 511453
Tel: (86) 20 2290 2088 Fax: (86) 20 3490 9303
Email: BVCPS_pyinfo@cn.bureauveritas.com
Website: cps.bureauveritas.com

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <http://www.cps.bureauveritas.com> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

The content of this PDF file is in accordance with the original issued reports for reference only.
This Test Report cannot be reproduced, except in full, without prior written permission of the company.



Technical Report:

(9314)003-0602

Jan 09, 2014

Page 2 of 4

Photo of the Submitted Sample





Technical Report:

(9314)003-0602

Jan 09, 2014

Page 3 of 4

TEST RESULT

MIGRATION OF CERTAIN ELEMENTS EN71 Part3:2013

Test Method : European Standard EN 71 Part 3: 2013, Section 8.

See Soluble Element (Parameter) and its corresponding Maximum Allowable Limit (Req.) in Result Table	Type I	Dry, brittle, powder-like or pliable toy material	
	Type II	Liquid or sticky toy material	
	Type III	Scraped-off toy material	
-	Unit	Req.	Result
Test Item(s)	-	-	I
Type	-	III	III
Parameter	-	-	-
Mass of Trace Amount	g	-	-
Aluminium (Al)	mg/kg	70000	ND
Antimony (Sb)	mg/kg	560	ND
Arsenic (As)	mg/kg	47	ND
Barium (Ba)	mg/kg	18750	ND
Boron (B)	mg/kg	15000	ND
Cadmium (Cd)	mg/kg	17	ND
Chromium III (Cr III)	mg/kg	460	ND
Chromium VI (Cr VI)	mg/kg	0.2	ND
Cobalt (Co)	mg/kg	130	ND
Copper (Cu)	mg/kg	7700	ND
Lead (Pb)	mg/kg	47	ND
Manganese (Mn)	mg/kg	15000	ND
Mercury (Hg)	mg/kg	94	ND
Nickel (Ni)	mg/kg	930	ND
Selenium (Se)	mg/kg	460	ND
Strontium (Sr)	mg/kg	56000	ND
Tin (Sn)	mg/kg	180000	ND
Organic tin	mg/kg	12	ND
Zinc (Zn)	mg/kg	46000	ND
Conclusion	-	-	PASS



Technical Report:

(9314)003-0602

Jan 09, 2014

Page 4 of 4

TEST RESULT

Note / Key :

ND = Not detected

“>” = Greater than

Req. = Requirement

NR = Not requested

g = gram(s)

INCON. = Inconclusive

mg/kg = milligram(s) per kilogram = ppm = part(s) per million

[] = Detection Limit by Ion Chromatography Analysis

Detection Limit (mg/kg) :

For Type I - Al : 562.5; Sb : 4.5; As : 0.38; Ba : 150; B : 120; Cd : 0.13; Cr III : 3.75; Cr VI : 0.005 [0.002];

Co : 1.05; Cu : 62.25; Pb : 0.4; Mn : 120; Hg : 0.75; Ni : 7.5; Se : 3.75; Sr : 450; Sn : 1 500;

Organic tin : 0.09 {0.04}; Zn : 375

For Type II - Al : 140.6; Sb : 1.13; As : 0.09; Ba : 37.5; B : 30; Cd : 0.03; Cr III : 0.94; Cr VI : 0.005 [0.002];

Co : 0.26; Cu : 15.6; Pb : 0.1; Mn : 30; Hg : 0.19; Ni : 1.88; Se : 0.94; Sr : 112.5; Sn : 375;

Organic tin : 0.02 {0.04}; Zn : 93.8

For Type III - Al : 7 000; Sb : 56; As : 4.7; Ba : 1 875; B : 1 500; Cd : 1.7; Cr III : 46; Cr VI : 0.02 [0.002];

Co : 13; Cu : 770; Pb : 4.7; Mn : 1 500; Hg : 9.4; Ni : 93; Se : 46; Sr : 5 600; Sn : 18 000; Organic tin : 1.2 {2};

Zn : 4 600

Remark :

- Results of Cr III and Cr VI were reported as sum of soluble chromium content unless further specified.
- Result(s) of organic tin was (were) reported by soluble tin content unless further specified.
- The Experts group of Notified Bodies under the Safety of Toy Directive (NB-Toys) proposed to amend the maximum allowable limit of lead of European Parliament and Council Directive 2009/48/EC in particular regarding to Annex II, Part III, Point 13. See details in Comment.

Comment :

Proposals to amendment of European Parliament and Council Directive 2009/48/EC, Annex II, Part III, Point 13 :			
-	Type I	Type II	Type III
Element(s)	Lead (Pb)	Lead (Pb)	Lead (Pb)
Current	13.5 mg/kg	3.4 mg/kg	160 mg/kg
Proposed	4 mg/kg	1 mg/kg	47 mg/kg

END