

Test Report No. 2990686

Date : 22-Jun-2015

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TEST RESULTS

EN71-3 : 2013 +A1:2014 - Migration of certain elements

Category III : Scrapped-off toy material

Method : With reference to EN 71-3 : 2013 +A1:2014. Analysis of general elements was performed by ICP-OES and ICP-MS. Chromium (III) was obtained by calculation ,chromium (VI) was analyzed by UV-VIS.

Analysis		Result (mg/kg) Sample (1)	Limit (mg/kg)
Aluminium (Al)	(Soluble)	<10	70,000
Antimony (Sb)	(Soluble)	<15	560
Arsenic (As)	(Soluble)	<15	47
Barium (Ba)	(Soluble)	<5	18,750
Boron (B)	(Soluble)	3732	15,000
Cadmium (Cd)	(Soluble)	<5	17
Chromium (Cr)	(Soluble)	0.5	--
Chromium (III) (Cr (III))***	(Soluble)*	0.5	460
Chromium (VI) (Cr (VI))***	(Soluble)*	<0.2	0.2
Cobalt (Co)	(Soluble)	<10	130
Copper (Cu)	(Soluble)	<10	7,700
Lead (Pb)	(Soluble)	<5	160
Manganese (Mn)	(Soluble)	<10	15,000
Mercury (Hg)	(Soluble)	<5	94
Nickel (Ni)	(Soluble)	<10	930
Selenium (Se)	(Soluble)	<15	460
Strontium (Sr)	(Soluble)	<10	56,000
Tin (Sn)	(Soluble)	<0.5	180,000
Organic Tin^	(Soluble)*	Not conducted	12
Zinc (Zn)	(Soluble)	<10	46,000
Conclusion		PASS	

Sample description:

1. Red paint

Remark : 1. Results shown are based on the total weight of dry sample.

2. < = Less than
3. 1 mg/kg = 1 ppm (part per million)
4. *** = Confirmation test of soluble chromium (III) & chromium (VI) is not required in case of soluble chromium does not exceed their requirements as specified in EN71-3: 2013+A1:2014
5. ^ = Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in EN71-3: 2013 +A1:2014.
6. This sample is Category II but client's request test as Category III.

"Test(s) marked * on this Report are not included in the TISI Accreditation Scope for our Laboratory"

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