

Test Report

Report No. SCL03J000366002

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Applicant ZHONGSHAN FUZHOU ADHESIVE-PRODUCT CO.,LTD
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CITY,GUANGDONG PROVINCE CHINA

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name 铜版纸/ art paper
Client Reference AL(FSC)/AL/AL-A/AL-M/AL-AR/AL-AD/AL-AM/AL-B/AL-60g/AL-65g/
Information AL-90g/AL-105g/AL-120g/AL-128g/AL-140g/AL-150g/AL-160g/AL-180g/
AL-200g/AL-S/AL-S 300g/AL-S 250g
Sample Received Date Jan. 19, 2017
Testing Period Jan. 19, 2017 to Jan. 23, 2017

Executive Summary:

TEST REQUEST

European Standard on Safety of Toys:

- EN 71-3:2013+A1:2014 Migration of certain elements

CONCLUSION

Pass

***** For Further Details, Please Refer To the Following Page(s) *****

Tested by

Huangping Huang

Approved by

Qinghong Wan

Qinghong Wan

Technical Manager

Reviewed by

Wenjun Wang

Date

Jan. 26, 2017

No. R131020088

Report Seal

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▼ **EN 71-3:2013+A1:2014 Migration of certain elements**

Method(s) EN 71-3:2013+A1:2014 was/were used, and the item(s) was/were determined by ICP-OES, GC-MS.

Category III: scraped-off toy material

<u>Tested Item</u>	<u>Result</u> (mg/kg)	<u>MDL</u> (mg/kg)	<u>Limit</u> (mg/kg)
Aluminium (Al)	N.D.	50	70000
Antimony (Sb)	N.D.	5	560
Arsenic (As)	N.D.	5	47
Barium (Ba)	N.D.	50	18750
Boron (B)	N.D.	50	15000
Cadmium (Cd)	N.D.	1	17
Chromium (III) ^{#1}	N.D.	0.2	460
Chromium (VI)	N.D.	0.16	0.2
Cobalt (Co)	N.D.	5	130
Copper (Cu)	N.D.	50	7700
Lead (Pb)	N.D.	5	160
Manganese (Mn)	N.D.	50	15000
Mercury (Hg)	N.D.	5	94
Nickel (Ni)	N.D.	5	930
Selenium (Se)	N.D.	5	460
Strontium (Sr)	N.D.	50	56000
Tin (Sn) ^{#2}	N.D.	2	180000
Organic tin (TBT) ^{#3}	N.D.	0.05	12
Zinc (Zn)	N.D.	50	46000

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Tested Sample/Part Description White paper

Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million
- Filter paper was used instead of membrane filter in lab testing.
- ^{#1} Trivalent chromium (Cr (III)) = Chromium (Cr) - Hexavalent chromium (Cr (VI)) , where the chromium content exceeded the limits of hexavalent chromium and/or trivalent chromium, then hexavalent chromium was analyzed by HPLC-ICP-MS/UV-Vis and trivalent chromium content was calculated using the formula.
- ^{#2} Tin (Sn) content can be used for screen test for organic tins analysis to show compliance with the requirement of EN 71-3:2013+A1:2014.
- ^{#3} The migration of organic tin is expressed as tributyltin (TBT). where the tin content exceeded the limit of organic tin, ten organic tins listed in table were determined by GC-MS and the client should be noted there are other organic tins may be present in toy materials.

Organic tins tested under EN 71-3:2013+A1:2014
Methyl tin (MeT)
Butyl tin (BuT)
Dibutyl tin (DBT)
Tributyl tin (TBT)
Tetrabutyl tin (TeBT)
n-Octyl tin (MOT)
Di-n-octyl tin (DOT)
Di-n-propyl tin (DProT)
Diphenyl tin (DPhT)
Triphenyl tin (TPhT)

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Photo(s) of the sample(s)



*** End of report ***

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