

Test Report

Report No. SCL03J000366001

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Applicant ZHONGSHAN FUZHOU ADHESIVE-PRODUCT CO.,LTD
Address TORCH HIGH-TECH DEVELOPMENT ZONE,ZHONGSHAN CITY,GUANGDONGPROVINCE CHINA

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

Sample Name 特光纸/cast coated paper
Client Reference MCL-AR/MCL-A/MCL-AD/MCL-AM/MCL-B/MCL-BM/MCL-230g/
Information MCL-160g/MCL(FSC)
Sample Received Date Jan. 19, 2017
Testing Period Jan. 19, 2017 to Jan. 23, 2017

Executive Summary:

TEST REQUEST

CONCLUSION

European Standard on Safety of Toys:

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

Pass

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

Tested by Huangying Huang
Approved by Shinghong Wan
Shinghong Wan
Technical Manager



Report Seal

Reviewed by Wenjun Wang
Date Jan. 26, 2017

No. R131020088

Centre Testing International Group Co.,Ltd. Shunde Branch
9/F, Yongying Building, Section 2, No.8, East of Rongqi Avenue, Ronggui, Shunde District, Foshan, Guangdong, China

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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)	824	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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