

### **Test Report**

SCL03J000366007 Report No.

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ZHONGSHAN FUZHOU ADHESIVE-PRODUCT CO.,LTD **Applicant** 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 热敏纸thermal paper

Client Reference 135TML/135TML(1#)/TML/TML-A/TML-A1/TML-A3/ Information TML-A3-1/TML-A4/TML-A4-1/TML-J/TML-J-2/TML(J)/

TML-WF/TML-WF 80g/TML(J)-80g/K6301/K6302/K6303

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) \*\*\*\*\*\*\*\*\*

pinghong Wan nnical Manager Reviewed by

Jan. 26, 2017

Date

No. R131020088

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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

Tested Item	<u>Result</u>	MDL	<u>Limit</u>
	(mg/kg)	(mg/kg)	(mg/kg)
Aluminium (Al)	196	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) <sup>#2</sup>	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.
- \*\*I 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.
- <sup>#2</sup> 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.
- <sup>#3</sup> 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	(0.)
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)	(0,)
Di-n-propyl tin (DProT)	
Diphenyl tin (DPhT)	
Triphenyl tin (TPhT)	



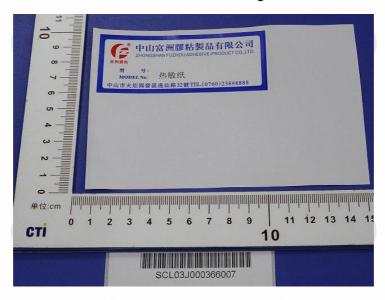


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### Photo(s) of the sample(s)



\*\*\* End of report \*\*\*

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