

Test Report

Report No. A2170054233102001

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Applicant DONGGUAN IN MEI COATING CO.,LTD

Address TIANXIN AREA, HUANGJIANG TOWN, DONGGUAN CITY, GUANGDONG PROVINCE

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

Sample Name	INK
Part No.	G432-10400
Sample Received Date	Oct. 31, 2017
Testing Period	Oct. 31, 2017 to Nov. 6, 2017

Test Conducted:

As requested by the applicant, for details refer to next page(s)

Tested by

Reviewed by

Date Nov. 6, 2017

Victor Wang
Lab Manager

No. R158921661

Group Co.,Ltd. CTI Building, No.4, Liuxian 3rd road, Xin'an Street, Bao'an District, Shenzhen, P.R.China



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Executive Summary:

TEST REQUEST

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

- Migration of certain elements

CONCLUSION

See page 3~4

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

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

▼ Migration of certain elements

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

Category III: scraped-off toy material

Tested Item(s)	Result (mg/kg)	MDL	Limit
	001	(mg/kg)	(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.	0.002	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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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 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)

Tested Sample/Part Description

001 White ink

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Photo(s) of the sample(s)



*** End of Report ***

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