

# Test Report No. F690101/LF-CTSAYHA13-02519

Issued Date : May 13, 2013 Page 1 of 3

To: **SLAND CO., LTD**  
 295-9, Youngjang-ri,  
 Kwangtan-meon,  
 Paju-city,  
 Kyungki-do,  
 Korea

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

**SGS Job No.** : AYHA13-02519  
**Sample Description** : Whiteboard Marker Ink SL-Black  
**Style / Item No.** : -  
**Order No.** : -  
**Buyer** : -  
**Supplier** : SLAND CO., LTD  
**Country of Origin** : -  
**Country of Destination** : -  
**Sample Receiving Date** : MAY. 02, 2013  
**Testing Period** : MAY. 03, 2013 to MAY. 13, 2013  
**Test Performed** : SGS Korea tested the sample which was selected by applicant with following result.  
**Test Result(s)** : For further details, please refer to following page (s)  
**Result Summary** :

Test Requested	Conclusion
European Directive 2009/48/EC and its amendment – Migration of certain elements. <b>(Selected parts as specified by client)</b>	<b>PASS</b>

SGS Korea Co., Ltd.



Tommy Oh / Technical Manager

**Test Results :**
**European Directive 2009/48/EC – Migration of certain elements**
**Category II: Liquid or Sticky toy material**

Method : With reference to pr EN 71 Part 3:2012. Analysis was performed by ICP-MS. Extractable Organic Tin was analyzed by GC-MS. Extractable Chromium (VI) was analyzed by IC-UV/VIS.

Test Item(s)	Result (mg/kg)		Reporting Limit (mg/kg)	Permissible Limit (mg/kg)
	1			
Soluble Aluminium (Al)	ND		50	1,406
Soluble Antimony (Sb)	3.68		1	11.3
Soluble Arsenic (As)	ND		0.5	0.9
Soluble Barium (Ba)	ND		50	1,125
Soluble Boron (B)	ND		50	300
Soluble Cadmium (Cd)	ND		0.3	0.3 <sup>^</sup>
Soluble Chromium (III) (Cr (III))	ND		5	9.4
Soluble Chromium (VI) (Cr (VI))	ND		0.005	0.005
Soluble Cobalt (Co)	ND		0.5	2.6
Soluble Copper (Cu)	ND		50	156
Soluble Lead (Pb)	ND		0.5	3.4
Soluble Manganese (Mn)	ND		50	300
Soluble Mercury (Hg)	ND		0.5	1.9
Soluble Nickel (Ni)	ND		10	18.8
Soluble Selenium (Se)	ND		5	9.4
Soluble Strontium (Sr)	ND		50	1,125
Soluble Tin (Sn)	ND		0.08	3,750
Soluble Organic Tin <sup>+</sup>	ND		0.2	0.2
Soluble Zinc (Zn)	ND		50	938
<b>Comment</b>	<b>PASS</b>		-	-

**Description :**

1. Whiteboard Marker Ink SL-Black

Note: (1) mg/kg = milligram per kilogram

(2) N. D. = Not detected (&lt; MDL)

 Remark: <sup>^</sup> = Permissible limit is quoted from EU Commission Directive 2012/7/EU

<sup>+</sup> = Methyl tin, Di-n-propyl tin, Dibutyl tin, Tributyl tin, n-Octyl tin, Tetrabutyl tin, Diphenyl tin, Di-n-octyl tin and Triphenyl tin. According to the best of our knowledge, the result calculation of each organic tin is modified from pr EN71-3:2012, and is relative to the molecular weight of Tributyltin (TBT).

**Picture of Sample as Received :**



\*\*\* End of Report \*\*\*