

**Test Report No.** 3811302

**Date :** 27-Feb-2018

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**Client : Thai Paper Co., Ltd.**  
**1 Siam Cement Road**  
**Bangsue Bangkok 10800 Thailand**

The following sample(s) was/were submitted and identified by client as:

Sample Name : Offset Pro New Paper - TPC  
 Sample No. : 3927785  
 Sample Condition : Sample is contained in a plastic bag.  
 Quantity Submitted : 1 bag

Sample Receiving Date : 20-Feb-2018  
 Testing Period : 20-Feb-2018 to 27-Feb-2018

Test Results : Please see the attached sheet.

**Test Requested & Result Summary**

Test Requested : Please refer to the result summary (Test parameter(s) was/were selected by client).

Result Summary :

Test Requested :	Conclusion
European Standard on Safety of Toys	--
1. EN71 Part 3:2013+A2:2017 - Migration of certain elements	PASS

Remark : Test results in this report are applicable for the item tested and reflects the tested sample as received.

**Signed for and on behalf of**  
**SGS (Thailand) Limited**



**Rutchuporn Mungsom**  
**Laboratory manager - Toy and Hardgood**

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**TEST RESULTS**
**EN 71-3 : 2013 + A2 : 2017 - Migration of certain elements**
**Category III : Scrapped-off toy material**

Method: With reference to EN 71-3 : 2013 + A2 : 2017. Analysis of general elements was performed by ICP-OES and ICP-MS. Chromium (III) was obtained by calculation, chromium (VI) was analyzed by UV-VIS.

Analysis		Reporting Limit (mg/kg)	Result (1) (mg/kg)	Limit (mg/kg)
Aluminium (Al)	(Soluble)	50	82	70,000
Antimony (Sb)	(Soluble)	10	ND	560
Arsenic (As)	(Soluble)	10	ND	47
Barium (Ba)	(Soluble)	50	ND	18,750
Boron (B)	(Soluble)	50	ND	15,000
Cadmium (Cd)	(Soluble)	5	ND	17
Chromium (Cr)	(Soluble)	0.2	0.5	--
Chromium (III) (Cr (III))***	(Soluble)	0.2	0.5	460
Chromium (VI) (Cr (VI))***	(Soluble)	0.2	ND	0.2
Cobalt (Co)	(Soluble)	10	ND	130
Copper (Cu)	(Soluble)	50	ND	7,700
Lead (Pb)	(Soluble)	10	ND	160
Manganese (Mn)	(Soluble)	50	ND	15,000
Mercury (Hg)	(Soluble)	10	ND	94
Nickel (Ni)	(Soluble)	10	ND	930
Selenium (Se)	(Soluble)	10	ND	460
Strontium (Sr)	(Soluble)	50	ND	56,000
Tin (Sn)	(Soluble)	4.9	ND	180,000
Organic Tin <sup>^</sup>	(Soluble)	3	Not conducted	12
Zinc (Zn)	(Soluble)	50	ND	46,000
Conclusion			PASS	

**Sample description:**

- White paper with red printed

Remark : 1. Results shown are based on the total weight of dry sample.

2. ND = Not Detected

3. 1 mg/kg = 1 ppm (part per million)

4. \*\*\* = Confirmation test of soluble chromium (III) & chromium (VI) is not required in case of soluble chromium does not exceed their requirements as specified in EN 71-3 : 2013 + A2 : 2017.

5. ^ = Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in EN 71-3 : 2013 + A2 : 2017.

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SAMPLE/ATTACHMENT PICTURE



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

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