

Test Report

No. SH9230625/ CHEM

Date: Dec. 3, 2009

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NINGBO ASIA PULP&PAPER CO., LTD.
NO.88 HONGYUAN ROAD, XIAOGANG QINGSHI INDUSTRIAL ZONE, BEILUN DISTRICT, NINGBO,
ZHEJIANG, CHINA

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

Sample Name : PLAYING CARD
SGS Ref No. : SHT002925539
Manufacturer : NINGBO ASIA PULP&PAPER CO., LTD.

Sample Receiving Date : Nov.30, 2009, 2009
Testing Period : Nov.30-Dec.03, 2009

Test Requested : (1) For compliance with the requirements of Mattel CPI of QSOP 0006-3600 (Rev. Q on Jun.09, 2009) – Heavy Elements.
(2) As specified by client, to determine the specified phthalates contents in specified material in submitted sample in accordance with Mattel PI of QSOP 0006-3610 (Rev. X on Mar.24, 2009).
(3) As specified by client, to determine the specified Formaldehyde contents in submitted sample in accordance with Mattel PI of QSOP 0006-3618 (Rev. B on Oct.02, 2009).
(4) As specified by client, to determine the specified Packaging Heavy Elements contents in submitted sample in accordance with Mattel CPI of QSOP 0006-5000 (Rev. B on Jan.07, 2005).

Test Method /Test Results: Please refer to next pages

Conclusion : (1) PASS
(2) PASS
(3) PASS
(4) PASS

Signed for and on behalf of
SGS-CSTC Chemical Laboratory

Sandy Hao

Sandy Hao
Lab Manager

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Test Method : (1) As specified in Mattel CPI of QSOP 0006-3600 (Rev. Q on Jun.09, 2009) – Heavy Elements. Analysis was performed by ICP-OES and AAS
 (2) As specified in Mattel PI of QSOP 0006-3610 (Rev. X on Mar.24, 2009). The specimen is extracted by solvent and followed analysis was performed by Gas Chromatograph / Mass Spectrometer (GC/MS).
 (3) As specified in Mattel PI of QSOP 0006-3618 (Rev. B on Oct.02, 2009). With reference to EN 645:1993 & EN 1541:2001. Analysis was performed by UV-Vis Spectrophotometer.
 (4) As specified in Mattel CPI of QSOP 0006-5000 (Rev. B on Jan.07, 2005). Analysis of total Lead, Cadmium, Mercury was performed by ICP-OES. Chromium VI determination was performed by UV-Vis Spectrophotometer.

Test results by chemical method (Unit: mg/kg)

1) Plastic and All Other Materials Specification

i) For Non-Electrical / Electronic Products

Test item	1	Total Limit	Soluble Method 1 Limit
Total Lead (Pb)	< 5	200	90
Total Antimony (Sb)	< 5	--	60
Total Arsenic (As)	< 5	--	25
Total Barium (Ba)	24	--	500
Total Cadmium (Cd)	< 5	--	75
Total Chromium (Cr)	< 5	--	60
Total Mercury (Hg)	< 5	--	60
Total Selenium (Se)	< 10	--	300

Sample Description :

1. White paper

Remark : The above total heavy metals contents of the submitted samples were within their corresponding soluble limits; hence no additional soluble analysis was performed in accordance with Mattel CPI of QSOP 0006-3600 (Rev. Q on Jun.09, 2009) specification.

Note : 1. < = less than
 2. ppm = mg/kg

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(2) Phthalates contents

Test items		1	Detection Limit
Dibutyl phthalate	(DBP)	ND	0.003%
Benzyl butyl phthalate	(BBP)	ND	0.003%
Bis-(2-ethylhexyl) phthalate	(DEHP)	ND	0.003%
Di-"isononyl" phthalate	(DINP)	ND	0.010%
Di-"isodecyl" phthalate	(DIDP)	ND	0.010%
Di-n-octyl phthalate	(DNOP)	ND	0.003%
Di-n-hexyl phthalate	(DnHP)	ND	0.003%
Total (DBP +BBP+ DEHP +DINP+DIDP+ DNOP)		< 0.04%	--

Test Part Description:

1. White paper

Note:

- (1) ND = Not Detected
- (2) MDL = Method Detection Limit
- (3) % = percentage by weight
- (4) < = Less Than

Remark: Summary of upper limits of requirements:

Requirements	Upper Limit
QSOP 0006-3610 (Rev. X on Mar.24, 2009)	
- Accessible Materials in Products, Accessories, or Peripherals Intended to be Used Exclusively by Adults	- Total (DBP+BBP+ DEHP) < 0.1%
- All other Accessible Materials	- Total (DBP+BBP+DEHP+DINP+DNOP + DIDP) < 0.1% - DnHP < 0.1%
- Inaccessible Materials	- Total (DBP+BBP+ DEHP) < 0.1%
- Modeling Clay	- Total (DBP+BBP+ DEHP+DINP+DNOP+ DIDP) < 0.1% - DnHP < 0.01%

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(3) Formaldehyde content (Unit: mg/kg)

Test Items	1	MDL
Formaldehyde content	ND	5

Sample Description :

1. White paper

Note :

1. mg/kg=ppm
2. ND = Not detected
3. MDL=Method Detection Limit
4. Materials must not contain formaldehyde in excess of the limits specified in below table.

	Products for children<3years (mg/kg)	Products for children≥3years (mg/kg)
Fabric	20	75
Paper	30	N/A
Resin-Boned Wood	80	N/A

(4) Packaging Heavy Elements contents (Unit: mg/kg):

Test Item	1
Lead (Pb)	< 5
Hexavalent Chromium (Cr VI)	< 10
Cadmium (Cd)	< 5
Mercury (Hg)	< 5
Total (Pb + Cd + Cr VI + Hg)	< 25
Total Limit	100

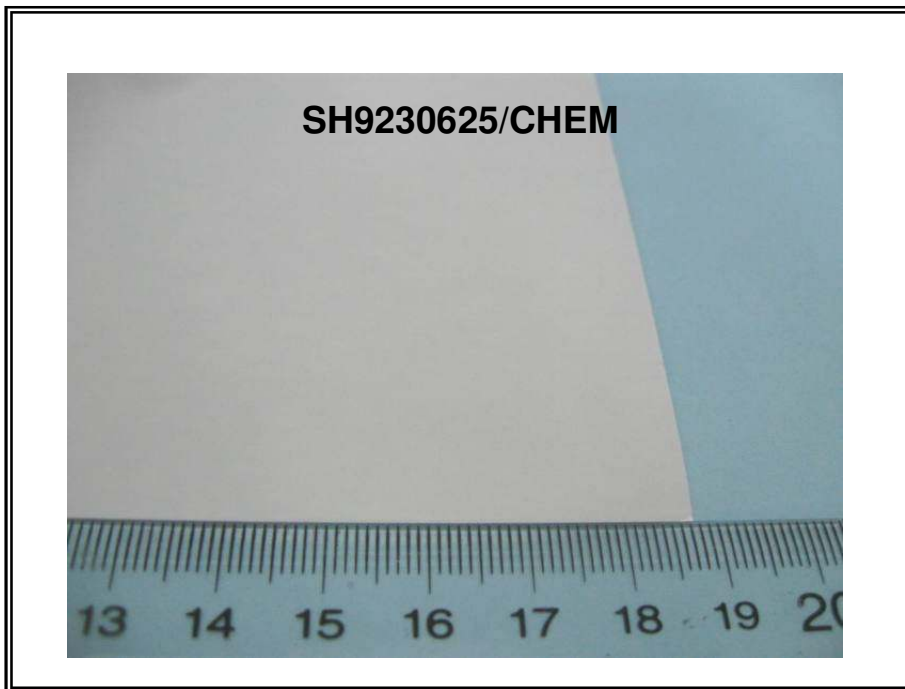
Sample Description :

1. White paper

- Note :
1. < = less than
 2. ppm = mg/kg

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Sample photo:



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*** End of Report ***

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