



TEST REPORT

Report No. 010222050033

DATED: 13 MAY 2022

Client : SIAM NIPPON INDUSTRIAL PAPER CO., LTD.
19 MOO 19, THAPHA, BANPONG,
RATCHABURI 70110

Buyer : /

Sample Description : SNP MG PAPER

Item No. : /

SKU No. : /

Model / Style : /

Age Grade : /

Manufacturer : SIAM NIPPON INDUSTRIAL PAPER CO., LTD.

Country of Origin : THAILAND

Country of Destination : /

Test Sample Received : RECEIVED ON 04/05/2022

Test Period : FROM 04/05/2022 TO 13/05/2022

TEST REQUESTED	CONCLUSION	REMARK
HEAVY METALS AND FLAME RETARDANTS CONTENT – EUROPEAN PARLIAMENT AND COUNCIL DIRECTIVE 2011/65/EU ON THE RESTRICTION OF THE USE OF CERTAIN HAZARDOUS SUBSTANCES IN ELECTRICAL AND ELECTRONIC EQUIPMENT (ROHS) WITH ITS AMENDMENTS	PASS	-
PHTHALATES CONTENT – DIRECTIVE 2015/863/EU AMENDMENT OF EUROPEAN PARLIAMENT AND COUNCIL DIRECTIVE 2011/65/EU ON THE RESTRICTION OF THE USE OF CERTAIN HAZARDOUS SUBSTANCE IN ELECTRICAL AND ELECTRONIC EQUIPMENT (ROHS)	PASS	-

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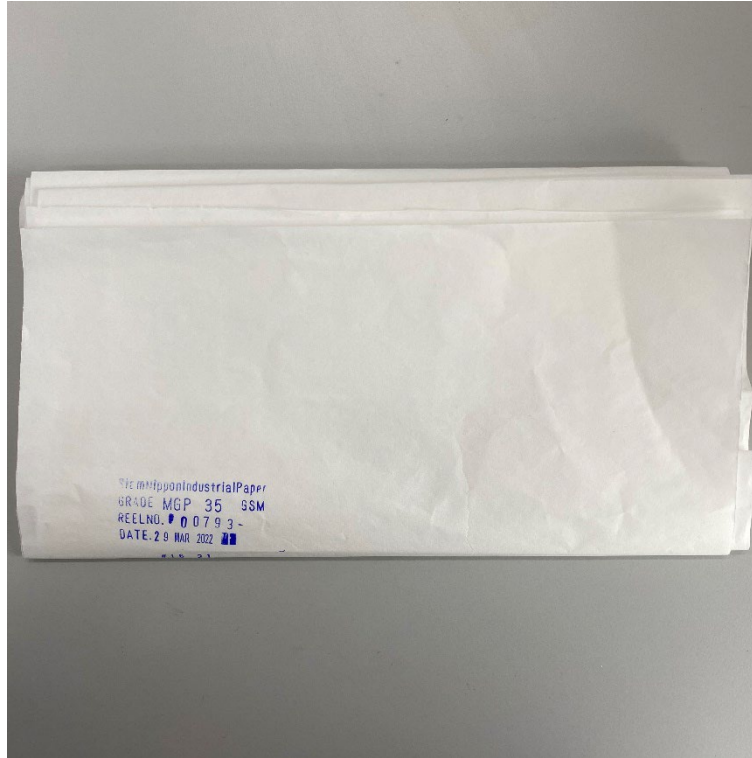
158 Kallang Way #08-01
Singapore 349245



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SAMPLE PHOTO



CG - ENABLING TRUST IN A CHANGING WORLD



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TEST RESULT(S):

Heavy Metals and Flame Retardants Content - European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendments

Test Item(s)	Item / Component Description(s)	Conclusion
1	SNP MG PAPER	PASS

Compounds	Tested Item (ppm)		RoHS Limits (ppm)
	1		
Lead (Pb)	ND		1000
Mercury (Hg)	ND		1000
Cadmium (Cd)	ND		100
Chromium VI (Cr VI)	ND		1000
Polybrominated Biphenyls (PBBs) :			
Bromobiphenyls	ND		/
Dibromobiphenyls	ND		
Tribromobiphenyls	ND		
Tetrabromobiphenyls	ND		
Pentabromobiphenyls	ND		
Hexabromobiphenyls	ND		
Heptabromobiphenyls	ND		
Octabromobiphenyls	ND		
Nonabromobiphenyls	ND		
Decabromobiphenyl	ND		
Sum of PBBs	ND		
Polybrominated Diphenyl Ethers (PBDEs) :			
Bromodiphenyl ethers	ND		/
Dibromodiphenyl ethers	ND		
Tribromodiphenyl ethers	ND		
Tetrabromodiphenyl ethers	ND		
Pentabromodiphenyl ethers	ND		
Hexabromodiphenyl ethers	ND		
Heptabromodiphenyl ethers	ND		
Octabromodiphenyl ethers	ND		
Nonabromodiphenyl ethers	ND		
Decabromodiphenyl ether	ND		
Sum of PBDEs	ND		



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TEST RESULT(S): (Continued)

Note / Key:

ND: Not Detected >: Greater than Requirement: Requirement
 NR: Not Requested 1%: 10,000ppm %: Percent
 mg/kg: milligram(s) per kilogram = ppm = parts per million
 Detection Limit (mg/kg): Pb, Cd, Hg, Cr & Cr VI: 10 ; Each (PBBs & PBDEs): 10

Remarks:

- The list of analytes is summarized in table of Appendix.
- The test flowchart of heavy metals and flame retardants content is listed in table of Appendix.
- Result(s) of Cr VI for metallic material(s) was (were) expressed in term of positive and negative. Negative means the absence of Cr VI on the tested areas and the result(s) was (were) regarded as in compliance with European Parliament and Council Directive 2011/65/EU, Article 4(1). While, positive means the presence of Cr VI on tested areas and the result(s) was (were) regarded as in conflict with European Parliament and Council Directive 2011/65/EU, Article 4(1).
- According to European Parliament and Council Directive 2011/65/EU, Article 5 "Adaptation of the Annexes to scientific and technical progress", exemption(s) should be granted to the materials and components of Test Item(s) in the lists in Annexes III and IV of this directive.

Phthalates Content – Directive 2015/863/EU Amendment of European Parliament and Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS)

Test Item(s)	Item / Component Description(s)
1	SNP MG PAPER

-	Abbrev.	Unit	Limit	Result
Test Item(s)	-	-	-	1
Di-(2-ethylhexyl) phthalate	DEHP	%	0.1	ND
Di-butyl phthalate	DBP	%	0.1	ND
Benzyl butyl phthalate	BBP	%	0.1	ND
Di-iso-butyl phthalate	DIBP	%	0.1	ND
Conclusion	-	-	-	PASS

Note:

- Reporting limit (Each): 0.01 %
- ND = Not Detected

ANNEX					
Compound	Abbrev.	CASRN	Compound	Abbrev.	CASRN
Di-(2-ethylhexyl) phthalate	DEHP	117-81-7	Di-iso-butyl phthalate	DIBP	84-69-5
Di-butyl phthalate	DBP	84-74-2	Benzyl butyl phthalate	BBP	85-68-7

CASRN: Chemical Abstracts Service Registry Number

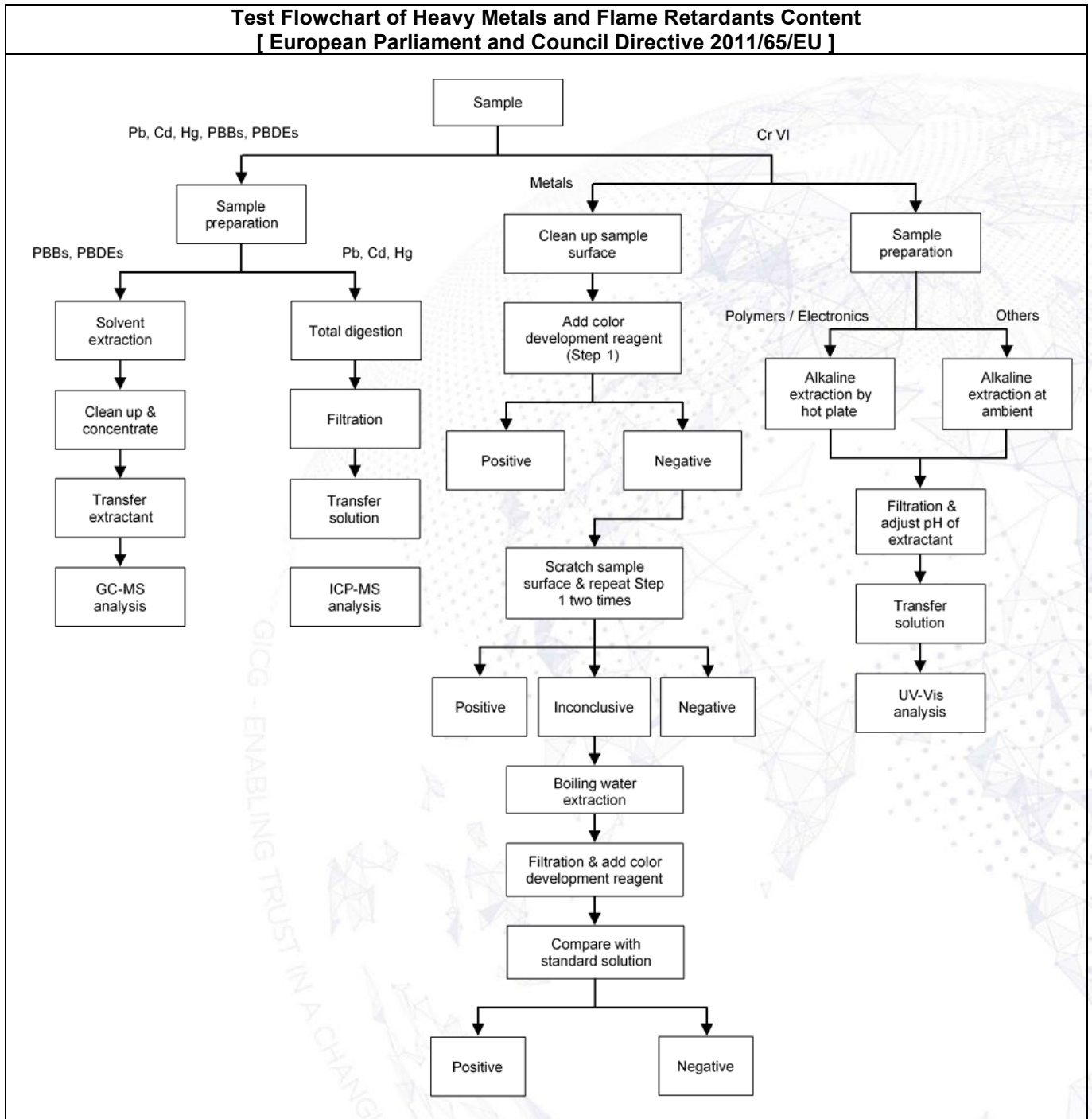


TEST RESULT(S): (Continued)

APPENDIX

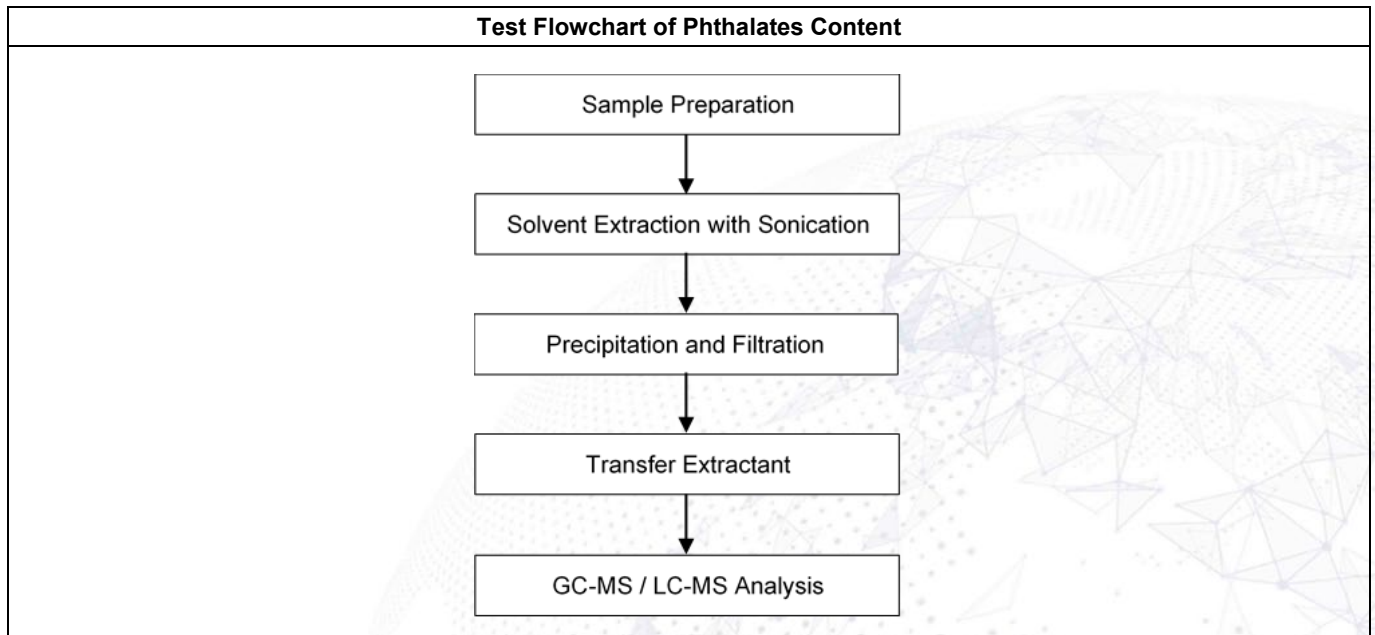
List of Analytes and their Corresponding Test Methods [European Parliament and Council Directive 2011/65/EU]		
No.	Name of Analyte(s)	Test Method(s)
1	Lead (Pb)	With reference to International Standard IEC 62321-5: 2013.
2	Cadmium (Cd)	
3	Mercury (Hg)	
4	Chromium VI (Cr VI)	<u>Metal:</u> With reference to IEC 62321-7-1:2015. <u>Polymers & Electronics:</u> With reference to EN 62321: 2009, Annex C. <u>Leather:</u> International Standard ISO 17075: 2007 <u>Other than Metal, Polymers, Electronics & Leather:</u> With reference to ISO 17075: 2007
5	Polybromobiphenyls (PBBs) - Bromobiphenyl (MonoBB) - Dibromobiphenyl (DiBB) - Tribromobiphenyl (TriBB) - Tetrabromobiphenyl (TetraBB) - Pentabromobiphenyl (PentaBB) - Hexabromobiphenyl (HexaBB) - Heptabromobiphenyl (HeptaBB) - Octabromobiphenyl (OctaBB) - Nonabromobiphenyl (NonaBB) - Decabromobiphenyl (DecaBB)	With reference to IEC 62321-6: 2015.
6	Polybromodiphenyl ethers (PBDEs) - Bromodiphenyl ether (MonoBDE) - Dibromodiphenyl ether (DiBDE) - Tribromodiphenyl ether (TriBDE) - Tetrabromodiphenyl ether (TetraBDE) - Pentabromodiphenyl ether (PentaBDE) - Hexabromodiphenyl ether (HexaBDE) - Heptabromodiphenyl ether (HeptaBDE) - Octabromodiphenyl ether (OctaBDE) - Nonabromodiphenyl ether (NonaBDE) - Decabromodiphenyl ether (DecaBDE)	
7	Phthalates - Di-(2-ethylhexyl) phthalate (DEHP) - Di-butyl phthalate (DBP) - Benzyl butyl phthalate (BBP) - Di-iso-butyl phthalate (DIBP)	With reference to IEC 62321-8: 2017.
[a]	The principle of this method was evaluated and supported by two studies organized by IEC TC 111 WG3. These studies were focused on detecting the presence of Cr VI in the corrosion protection coatings on metallic samples.	

TEST RESULT(S): (Continued)





TEST RESULT(S): (Continued)



END OF REPORT

This report sets forth our findings solely with respect to the test samples identified herein. The results in this report are not representative of the quality or characteristics of the lot/batch from which a test sample was taken or any similar or identical product unless specifically and expressly noted. The sample/s mentioned in this report is/are submitted/supplied/manufactured by the Client, GIC Testing & Inspection Services Pte. Ltd. therefore assumes no responsibility for the accuracy of information on the brand name, model/ style number, consignment or any information supplied. Unless otherwise stated in this report, no tests were conducted to determine long term effects of using the specific product. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission.