

TEST REPORT

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The results relate only to the item tested.

Report No.: BKKH24004335

Applicant: SIAM NIPPON INDUSTRIAL PAPER CO., LTD.
19 MOO 19, SAENG-XUTO ROAD, THAPA, BANPONG,
RATCHABURI, 70110 THAILAND
ATTN: K.CHONTICHA

Issued Date: Apr 26, 2024

Sample Submitted:

Quantity of sample:	One (1) bag
Sample description:	Paper
Date sample received:	April 22, 2024

Client Information:

Item Name: SNP MG Paper



BKKH24004335

Test conducted:

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

Type of test: RoHS wet chemical analysis

For and on behalf of :
Intertek Testing Services (Thailand) Ltd.,
Hardlines Laboratory

Ladtaka Wongwiboonporn
Operation Manager
Hardlines Department

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Test conducted:

(A) Test Result Summary:

Test	Result	LOD	LOQ
	Submitted samples		
Lead (Pb) Content (mg/kg)	ND	2	13
Cadmium (Cd) Content (mg/kg)	ND	1	5
Mercury (Hg) Content (mg/kg)	ND	3	13
Chromium (VI) (Cr ⁶⁺) Content (mg/kg)	ND	1	10
Polybrominated Biphenyls (PBBs) (mg/kg)			
Monobromobiphenyl (MonoBB)	ND	2	5
Dibromobiphenyl (DiBB)	ND	2	5
Tribromobiphenyl (TriBB)	ND	2	5
Tetrabromobiphenyl (TetraBB)	ND	2	5
Pentabromobiphenyl (PentaBB)	ND	2	5
Hexabromobiphenyl (HexaBB)	ND	2	5
Heptabromobiphenyl (HeptaBB)	ND	2	5
Octabromobiphenyl (OctaBB)	ND	2	5
Nonabromobiphenyl (NonaBB)	ND	2	5
Decabromobiphenyl (DecaBB)	ND	2	5
Sum. of Polybrominated Biphenyls (PBBs) (mg/kg)	ND	2	5
Polybrominated Diphenyl Ethers (PBDEs) (mg/kg)			
Monobromodiphenyl Ether (MonoBDE)	ND	2	5
Dibromodiphenyl Ether (DiBDE)	ND	2	5
Tribromodiphenyl Ether (TriBDE)	ND	2	5
Tetrabromodiphenyl Ether (TetraBDE)	ND	2	5
Pentabromodiphenyl Ether (PentaBDE)	ND	2	5
Hexabromodiphenyl Ether (HexaBDE)	ND	2	5
Heptabromodiphenyl Ether (HeptaBDE)	ND	2	5
Octabromodiphenyl Ether (OctaBDE)	ND	2	5
Nonabromodiphenyl Ether (NonaBDE)	ND	2	5
Decabromodiphenyl Ether (DecaBDE)	ND	2	5
Sum. of Polybrominated Diphenyl Ethers (PBDEs) (mg/kg)	ND	2	5

Remark: mg/kg = Milligram per kilogram based on weight of sample = ppm
 LOD = Limit of detection
 LOQ = Limit of quantitation
 ND = Not detected (Less than LOD)

Tested component: Paper

Testing period: April 22, 2024 to April 26, 2024

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Test conducted:

(B) RoHS Requirement:

Restricted substances	Limits
Lead (Pb)	0.1% (1000 mg/kg)
Cadmium (Cd)	0.01% (100 mg/kg)
Mercury (Hg)	0.1% (1000 mg/kg)
Chromium (VI) (Cr ⁶⁺)	0.1% (1000 mg/kg)
Polybrominated Biphenyls (PBBs)	0.1% (1000 mg/kg)
Polybrominated Diphenyl Ethers (PBDEs)	0.1% (1000 mg/kg)
Diethyl hexyl phthalate (DEHP)	0.1% (1000 mg/kg)
Benzyl butyl phthalate (BBP)	0.1% (1000 mg/kg)
Dibutyl phthalate (DBP)	0.1% (1000 mg/kg)
Di-isobutyl phthalate (DIBP)	0.1% (1000 mg/kg)

The above limits were quoted from RoHS Directive (EU) 2015/863 for homogeneous material.

(C) Test method:

Test item	Test method
Lead (Pb) Content	With reference to IEC 62321-5 : 2013, by microwave digestion and determined by ICP-OES
Cadmium (Cd) Content	With reference to IEC 62321-5 : 2013, by microwave digestion and determined by ICP-OES
Mercury (Hg) Content	With reference to IEC 62321-4 : 2013/Amd1 : 2017, by microwave digestion and determined by ICP-OES
Chromium (VI) (Cr ⁶⁺) Content	With reference to IEC 62321-7-2 : 2017, by digestion solution and determined by UV-VIS spectrophotometer
Polybrominated Biphenyls (PBBs) & Polybrominated Diphenyl Ethers (PBDEs)	With reference to IEC 62321-6 : 2015, by soxhlet extraction and determined by GC/MS
Phthalate Content	With reference to IEC 62321-8 : 2017, by soxhlet extraction and determined by GC/MS

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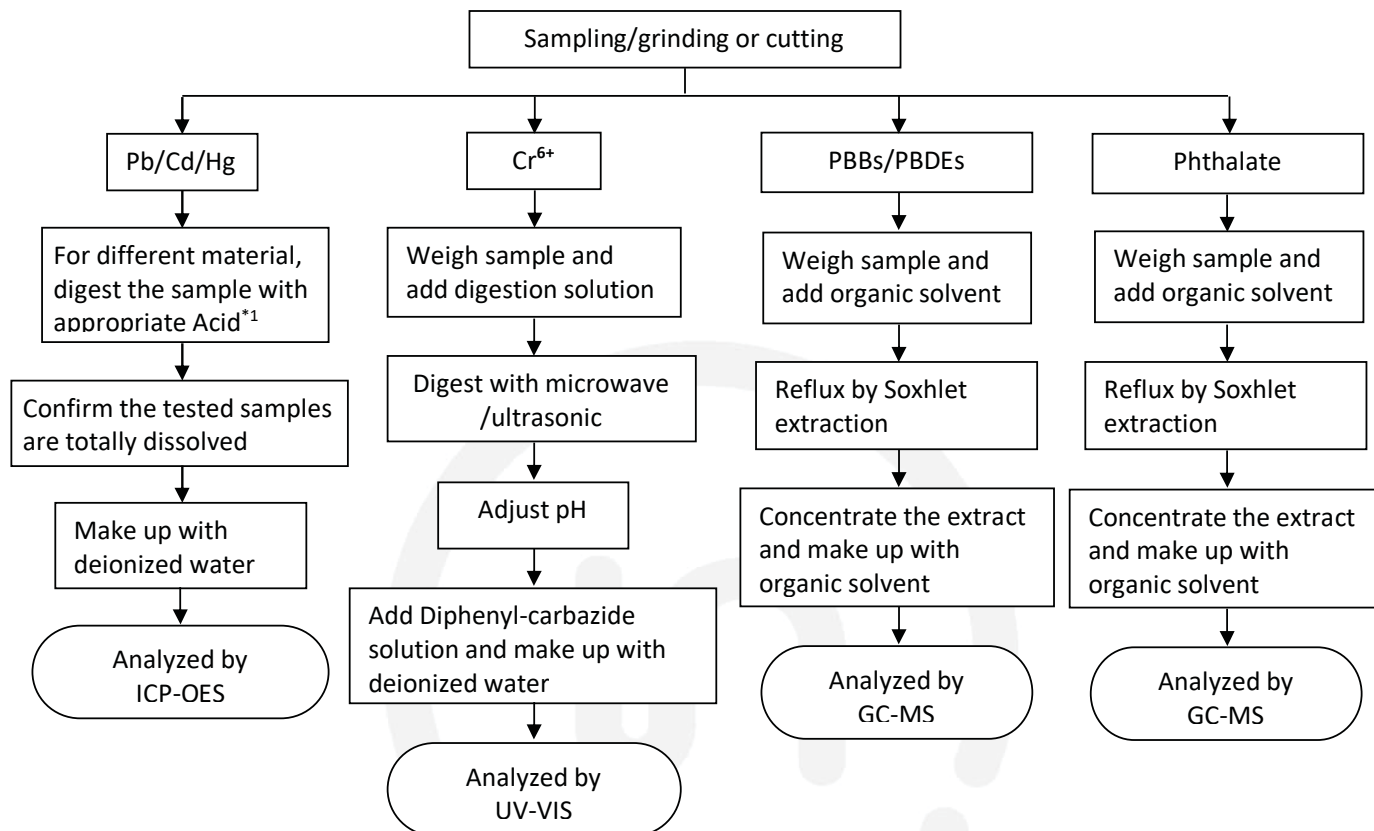
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Test conducted:

(D) Measurement Flowchart

Test for Pb/Cd/Hg/Chromium (VI)/PBBs/PBDEs/Phthalate Contents



Remark:

*1: List of appropriate Acid:

Material	Acid added for digestion
Polymers	HNO ₃ , HCl

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TEST REPORT

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Report No.: BKKH24007628

Applicant: SIAM NIPPON INDUSTRIAL PAPER CO., LTD.
19 MOO 19, SAENG-XUTO ROAD, THAPHA,
BANPONG, RATCHABURI 70110
ATTN: K.CHONTICHA

Issued Date: Aug 08, 2024

Sample Submitted:

Quantity of sample:	One (1) bag
Sample description:	White paper
Date sample received:	August 02, 2024

Client Information:

Item Name:	SNP MG Paper
Country of Origin:	Thailand



Test conducted:

As requested by the applicant, for details please refer to attached page(s)
Type of test: RoHS wet chemical analysis

For and on behalf of :
Intertek Testing Services (Thailand) Ltd.,
Hardlines Laboratory

Ladta Wongwiboonporn
Operation Manager
Hardlines Department

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Test conducted:

(A) Test Result Summary:

<u>Test</u>	<u>Result</u>	<u>LOD</u>	<u>LOQ</u>
	<u>Submitted samples</u>		
Phthalate Content (mg/kg)			
Diethyl hexyl phthalate (DEHP)	ND	15	25
Benzyl butyl phthalate (BBP)	ND	15	25
Dibutyl phthalate (DBP)	ND	15	25
Di-isobutyl phthalate (DIBP)	ND	15	25

Remark: mg/kg = Milligram per kilogram based on weight of sample = ppm
 LOD = Limit of detection
 LOQ = Limit of quantitation
 ND = Not detected (Less than LOD)

Tested component: White paper

Testing period: August 02, 2024 to August 08, 2024

(B) RoHS Requirement:

<u>Restricted substances</u>	<u>Limits</u>
Diethyl hexyl phthalate (DEHP)	0.1% (1000 mg/kg)
Benzyl butyl phthalate (BBP)	0.1% (1000 mg/kg)
Dibutyl phthalate (DBP)	0.1% (1000 mg/kg)
Di-isobutyl phthalate (DIBP)	0.1% (1000 mg/kg)

The above limits were quoted from RoHS Directive (EU) 2015/863 for homogeneous material.

(C) Test method:

<u>Test item</u>	<u>Test method</u>
Phthalate Content	With reference to IEC 62321-8 : 2017, by soxhlet extraction and determined by GC/MS

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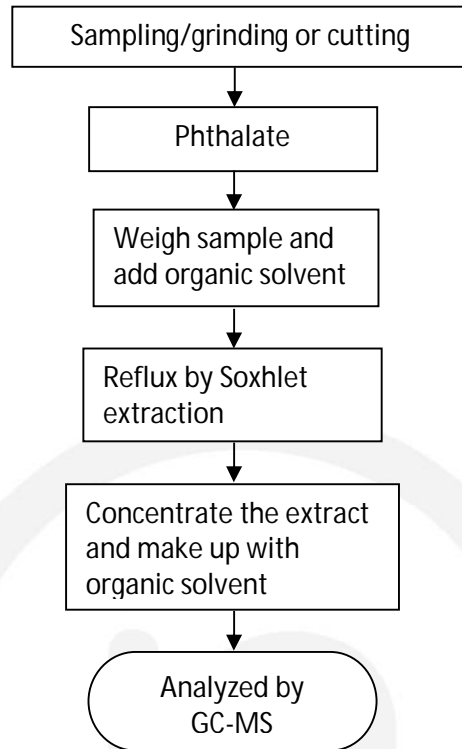
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Test conducted:

(D) Measurement Flowchart

Test for Phthalate Contents



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