

APPLICANT : KOSTIC KOREA LTD. ADDRESS : 185, Pungmu-ro,

Gimpo-si, Gyeonggi-do, Korea

	PAGE: 1 of 8
REPORT NO. RT19R-S0074-005-E	DATE: Jan. 11, 2019

SAMPLE DESCRIPTION	: The following submitted sample(s) said to be:-
NAME/TYPE OF PRODUCT SAMPLE ID NO. ITEM NO.	: Uncoated PAPER LABEL : RT19R-S0074-005 : WF PAPER
MANUFACTURER/VENDOR	: KOSTIC KOREA LTD.
SAMPLE RECEIVED	: Jan. 07, 2019 : Jan. 07, 2019 ~ Jan. 11, 2019
TEST METHOD(S)	: Please see the following page(s).
TEST RESULT(S)	: Please see the following page(s).

\* Note 1 : The test results presented in this report relate only to the object tested.

\* Note 2 : This report shall not be reproduced except in full without the written approval of the testing laboratory.

\* Note 3 : The item no. is assigned by client and indicated according to their requirement and guarantee letter.

\* Note 4 : The item no. is assigned by client and indicated according to their requirement and guarantee letter.

Approved by,

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Jade Jang / Lab. Technical Manager

Authorized by,



Bo Park / Lab. General Manager

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#### REPORT NO. RT19R-S0074-005-E

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SAMPLE ID NO. : RT19R-S0074-005 SAMPLE DESCRIPTION : Uncoated PAPER LABEL

TEST ITEM	UNIT	TEST METHOD	MDL	RESULT
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5 Edition 1.0 : 2013,	0.5	N.D.
Lead (Pb)	mg/kg	by acid digestion and determined by ICP-OES	5	N.D.
Mercury (Hg)	mg/kg	With reference to IEC 62321-4 Edition 1.0 : 2013, by acid digestion and determined by ICP-OES	2	N.D.
Hexavalent Chromium (Cr <sup>6+</sup> )	mg/kg	With reference to IEC 62321-7-2 Edition 1.0 : 2017, by alkaline/toluene digestion and determined by UV-VIS Spectrophotometer	8	N.D.
Polybrominated Biphenyl (PBBs)				
Monobromobiphenyl	mg/kg		5	N.D.
Dibromobiphenyl	mg/kg		5	N.D.
Tribromobiphenyl	mg/kg		5	N.D.
Tetrabromobiphenyl	mg/kg	With reference to	5	N.D.
Pentabromobiphenyl	mg/kg	IEC 62321-6 Edition 1.0 : 2015,	5	N.D.
Hexabromobiphenyl	mg/kg	by solvent extraction and	5	N.D.
Heptabromobiphenyl	mg/kg	determined by GC/MS	5	N.D.
Octabromobiphenyl	mg/kg		5	N.D.
Nonabromobiphenyl	mg/kg		5	N.D.
Decabromobiphenyl	mg/kg		5	N.D.
Polybrominated Diphenyl Ether (F	BDEs)			L
Monobromodiphenyl ether	mg/kg		5	N.D.
Dibromodiphenyl ether	mg/kg	] [	5	N.D.
Tribromodiphenyl ether	mg/kg	] [	5	N.D.
Tetrabromodiphenyl ether	mg/kg	With reference to	5	N.D.
Pentabromodiphenyl ether	mg/kg	IEC 62321-6 Edition 1.0 : 2015,	5	N.D.
Hexabromodiphenyl ether	mg/kg	by solvent extraction and	5	N.D.
Heptabromodiphenyl ether	mg/kg	determined by GC/MS	5	N.D.
Octabromodiphenyl ether	mg/kg	] [	5	N.D.
Nonabromodiphenyl ether	mg/kg	] [	5	N.D.
Decabromodiphenyl ether	mg/kg		5	N.D.

Tested by : Jooyeon Lee, Seulgi Park, Miseon Lee

Notes : mg/kg = ppm = parts per million

< = Less than

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N.D. = Not detected ( <MDL )

MDL = Method detection limit

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SAMPLE ID NO. : RT19R-S0074-005 SAMPLE DESCRIPTION : Uncoated PAPER LABEL

TEST ITEM	UNIT	TEST METHOD	MDL	RESULT
Bromine (Br)	Mith reference to EN 14582, mg/kg by oxygen combustion with bomb and determined by IC		30	N.D.
Chlorine (Cl)	mg/kg	With reference to EN 14582, by oxygen combustion with bomb and determined by IC	30	254
Beryllium (Be)	mg/kg	With reference to US EPA 3052, by acid digestion and determined by ICP-OES	2	N.D.
Antimony (Sb)	mg/kg	With reference to US EPA 3052, by acid digestion and determined by ICP-OES	2	N.D.

Tested by : Hyojoo kim, Jooyeon Lee

Notes : mg/kg = ppm = parts per million < = Less than N.D. = Not detected ( <MDL ) MDL = Method detection limit

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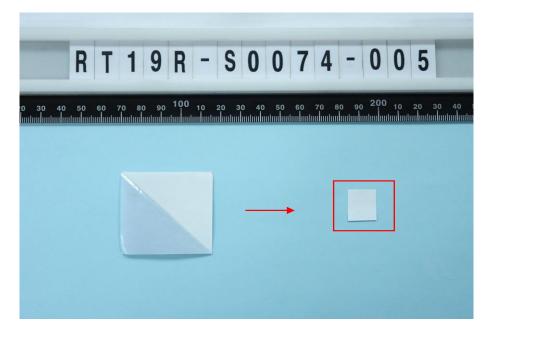
SAMPLE ID NO. : RT19R-S0074-005 SAMPLE DESCRIPTION : Uncoated PAPER LABEL

TEST ITEM	CAS NO.	UNIT	TEST METHOD	MDL	RESULT
Dibutyl phthalate (DBP)	84-74-2	mg/kg	With reference to IEC 62321-8 Edition 1.0 : 2017, by solvent extraction and determined by GC/MS	50	N.D.
Di(2-ethylhexyl) phthalate (DEHP)	117-81-7	mg/kg		50	N.D.
Benzyl butyl phthalate (BBP)	85-68-7	mg/kg		50	N.D.
Diisobutyl phthalate (DIBP)	84-69-5	mg/kg		50	N.D.

Tested by : Miseon Lee

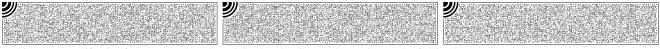
Notes : mg/kg = ppm = parts per million < = Less than N.D. = Not detected ( <MDL ) MDL = Method detection limit

\* View of sample as received;-



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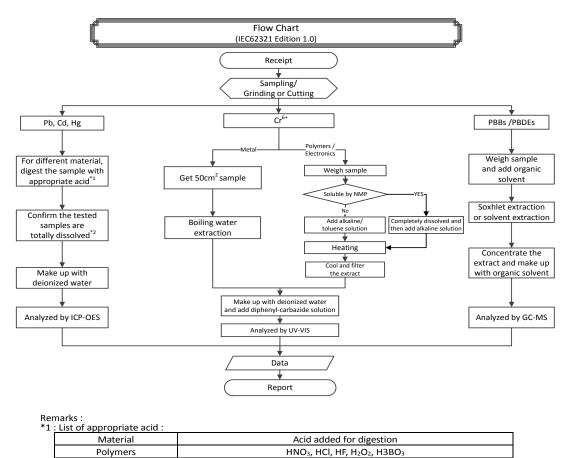
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Metals

Electronics

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\*2 : The samples were dissolved totally by pre-conditioning method according to above flow chart.

HNO₃, HCl, HF

HNO<sub>3</sub>, HCl, H<sub>2</sub>O<sub>2</sub>, HBF<sub>4</sub>

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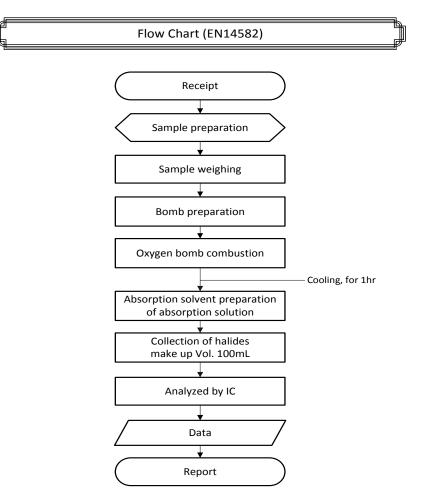




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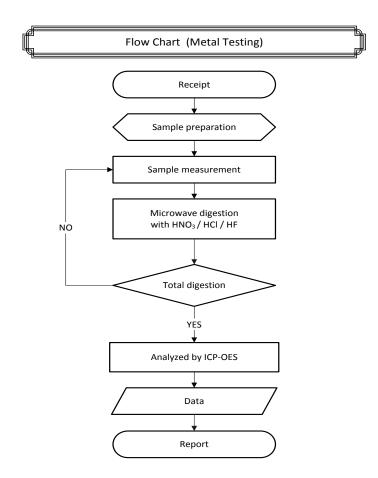




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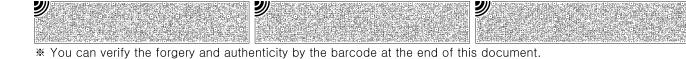
SAMPLE ID NO. : RT19R-S0074-005 SAMPLE DESCRIPTION : Uncoated PAPER LABEL



\*\* Remarks : The samples were dissolved totally by pre-conditioning method according to above flow chart.

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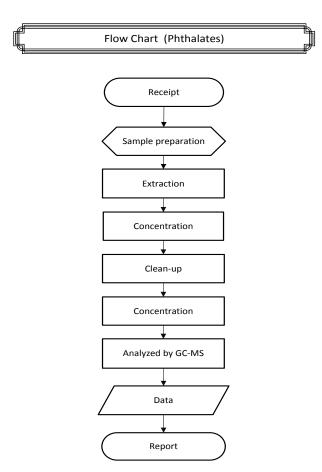






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#### \*\*\*\*\* End of Report \*\*\*\*\*

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