

APPLICANT : KOSTIC KOREA LTD.

ADDRESS: 120, LG-ro 360beon-gil, Wollong-myeon,

Paju-si, Gyeonggi-do, Korea

PAGE: 1 of 8

DATE: Jan. 14, 2021

REPORT NO. RT21R-S0018-004-E

SAMPLE DESCRIPTION : The following submitted sample(s) said to be:-

NAME/TYPE OF PRODUCT : Uncoated PAPER LABEL SAMPLE ID NO. : RT21R-S0018-004

ITEM NO. : WF PAPER

MANUFACTURER/VENDOR : KOSTIC KOREA LTD.

SAMPLE RECEIVED : Jan. 04, 2021

TESTING DATE : Jan. 04, 2021 ~ Jan. 14, 2021

TEST METHOD(S) : Please see the following page(s).
TEST RESULT(S) : Please see the following page(s).

Approved by,

Authorized by,

District

Jade Jang / Lab. Technical Manager

Bo Park / Lab. General Manager

Intertek Testing Services Korea Ltd.



 $^{{}^{*}}$ Note 1 : The test results presented in this report refer 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.



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REPORT NO. RT21R-S0018-004-E
SAMPLE ID NO. : RT21R-S0

: RT21R-S0018-004

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 : 2013/AMD1 : 2017, by acid digestion and determined by ICP-OES	2	N.D.	
Hexavalent Chromium (Cr ⁶⁺)	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 IEC 62321-6 Edition 1.0 : 2015, by solvent extraction and	5	N.D.	
Pentabromobiphenyl	mg/kg		5	N.D.	
Hexabromobiphenyl	mg/kg		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 (
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 IEC 62321-6 Edition 1.0 : 2015, by solvent extraction and	5	N.D.	
Pentabromodiphenyl ether	mg/kg		5	N.D.	
Hexabromodiphenyl ether	mg/kg		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, Chano Kim, Hayan Park

Notes: mg/kg = ppm = parts per million

< = Less than

N.D. = Not detected (<MDL)
MDL = Method detection limit

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REPORT NO. RT21R-S0018-004-E DATE: Jan. 14, 2021

SAMPLE ID NO. : RT21R-S0018-004 SAMPLE DESCRIPTION : Uncoated PAPER LABEL

TEST ITEM	UNIT	TEST METHOD	MDL	RESULT
Bromine (Br)	mg/kg	With reference to EN 14582, by oxygen combustion with bomb and determined by IC	30	N.D.
Chlorine (CI)	mg/kg	With reference to EN 14582, by oxygen combustion with bomb and determined by IC	30	199
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

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MDL = Method detection limit

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REPORT NO. RT21R-S0018-004-E

: RT21R-S0018-004

SAMPLE ID NO. SAMPLE DESCRIPTION: Uncoated PAPER LABEL

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

Tested by : Hayan Park

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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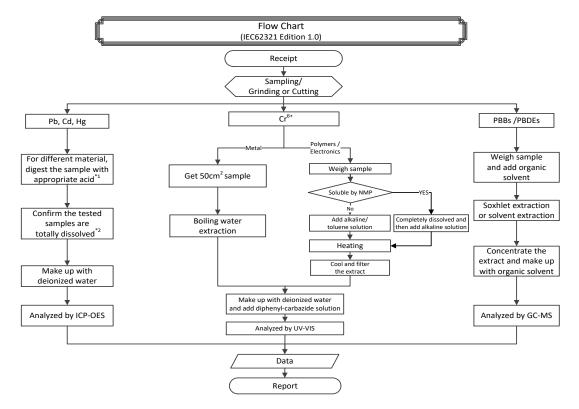


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DATE: Jan. 14, 2021

SAMPLE ID NO. : RT21R-S0018-004 SAMPLE DESCRIPTION: Uncoated PAPER LABEL



Remarks:
*1: List of appropriate acid:

- :	1. List of appropriate acid:					
	Material	Acid added for digestion				
	Polymers	HNO₃, HCl, HF, H ₂ O ₂ , H3BO₃				
	Metals	HNO₃, HCl, HF				
	Electronics	HNO ₃ , HCl, H ₂ O ₂ , HBF ₄				

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

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REPORT NO. RT21R-S0018-004-E

SAMPLE ID NO. : RT21R-S0018-004 SAMPLE DESCRIPTION : Uncoated PAPER LABEL

Receipt
Sample preparation
Sample weighing
Bomb preparation
Oxygen bomb combustion
Oxygen bomb combustion
Cooling, for 1hr
Absorption solvent preparation of absorption solution
Collection of halides make up Vol. 100mL
Analyzed by IC

Data
Report

Intertek Testing Services Korea Ltd.





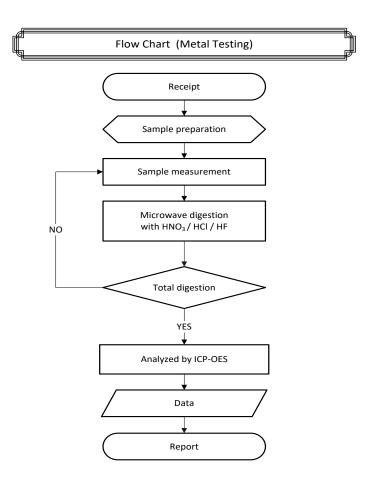


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DATE: Jan. 14, 2021

SAMPLE ID NO. : RT21R-S0018-004 SAMPLE DESCRIPTION : Uncoated PAPER LABEL



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

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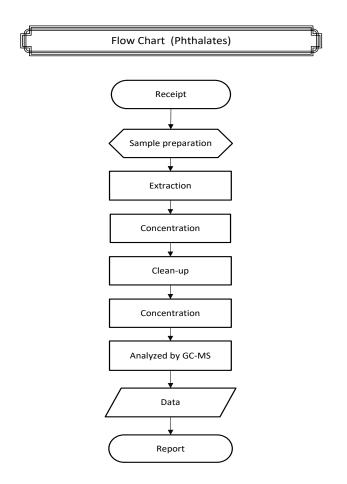




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SAMPLE ID NO. : RT21R-S0018-004 SAMPLE DESCRIPTION: Uncoated PAPER LABEL



** End of Report *****

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