

APPLICANT : KOSTIC FORMTEC CO.. LTD. ADDRESS : 120, LG-ro 360beon-gil, Wollong-myeon, Paju-si, Gyeonggi-do, Korea

 PAGE: 1 of 9

 REPORT NO. RT24R-S4390-004-E
 DATE: Jul. 04, 2024

SAMPLE DESCRIPTION	: The following submitted sample(s) said to be:-
NAME/TYPE OF PRODUCT	: PET FILM LABEL(Coating)#2
SAMPLE ID NO.	: RT24R-S4390-004
ITEM NO.	: CLEAR, METALIZED, WHITE
MANUFACTURER/VENDOR	: KOSTIC FORMTEC CO LTD.
SAMPLE RECEIVED	: Jun. 24, 2024
TESTING DATE	: Jun. 24, 2024 ~ Jul. 04, 2024
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 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.

Approved by,

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Jade Jang / Lab. Technical Manager

Authorized by,

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Bo Park / Lab. General Manager

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Authenticity check

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REPORT NO. RT24R-S4390-004-E

PAGE: 2 of 9 DATE: Jul. 04, 2024

SAMPLE ID NO. : RT24R-S4390-004

SAMPLE DESCRIPTION : PET FILM LABEL(Coating)#2

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)	1			
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, by solvent extraction and determined by GC/MS	5	N.D.
Hexabromobiphenyl	mg/kg		5	N.D.
Heptabromobiphenyl	mg/kg		5	N.D.
Octabromobiphenyl	mg/kg		5	N.D.
Nonabromobiphenyl	mg/kg		5	N.D.
Decabromobiphenyl	mg/kg		5	N.D.
Polybrominated Diphenyl Ether (PBDEs)	1		
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			N.D.
Nonabromodiphenyl ether	mg/kg			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

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

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REPORT NO. RT24R-S4390-004-E

PAGE: 3 of 9 DATE: Jul. 04, 2024

SAMPLE ID NO. : RT24R-S4390-004

SAMPLE DESCRIPTION : PET FILM LABEL(Coating)#2

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 (Cl)	mg/kg	With reference to EN 14582, by oxygen combustion with bomb and determined by IC	30	N.D.
Fluorine (F)	mg/kg	With reference to EN 14582, by oxygen combustion with bomb and determined by IC	30	N.D.
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	130

Tested by : Chano 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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PAGE: 4 of 9 DATE: Jul. 04, 2024

SAMPLE ID NO. : RT24R-S4390-004

SAMPLE DESCRIPTION : PET FILM LABEL(Coating)#2

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,	50	N.D.
Di(2-ethylhexyl) phthalate (DEHP)	117-81-7	mg/kg		50	N.D.
Di-n-octyl phthalate (DNOP)	117-84-0	mg/kg		50	N.D.
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	mg/kg		100	N.D.
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	mg/kg	by solvent extraction and determined by GC/MS	100	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.
Di-n-hexyl phthalate (DNHP)	84-75-3	mg/kg		50	N.D.

Tested by : Hayan Park

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

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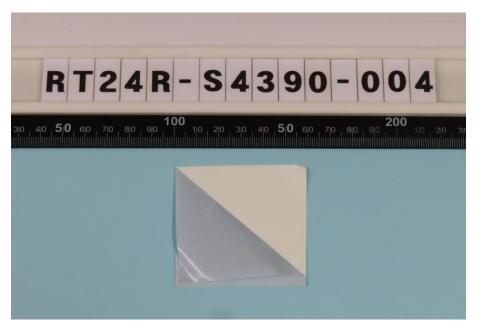


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SAMPLE ID NO. : RT24R-S4390-004 SAMPLE DESCRIPTION : PET FILM LABEL(Coating)#2

* View of sample as received;-



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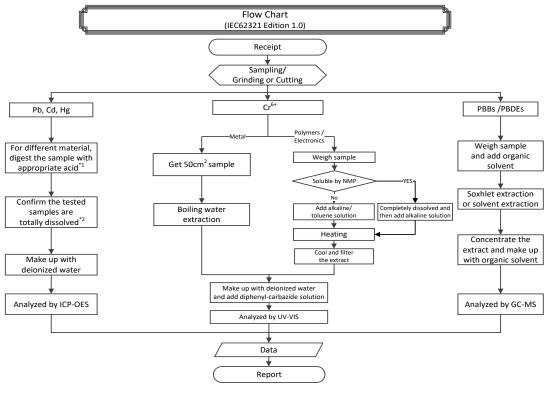
Total Quality. Assured.

TEST REPORT

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SAMPLE ID NO. : RT24R-S4390-004 SAMPLE DESCRIPTION : PET FILM LABEL(Coating)#2



Remarks : *1 : List of appropriate acid :

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	Material	Acid added for digestion			
	Polymers	HNO ₃ , HCl, HF, H ₂ O ₂ , H3BO ₃			
	Metals	HNO₃, HCI, 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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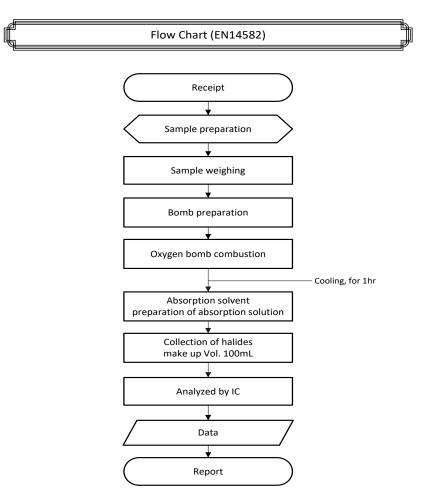




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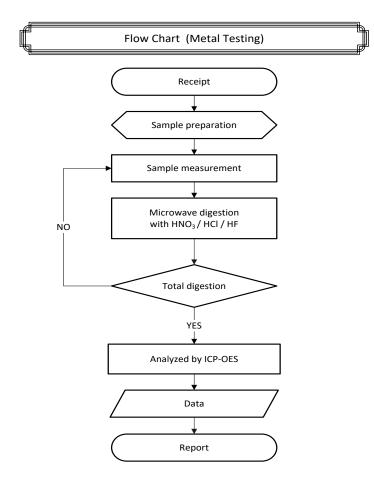
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** Remarks : The samples were dissolved totally by pre-conditioning method according to above flow chart.

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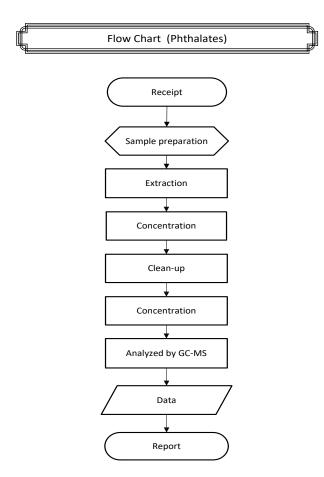




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PAGE: 9 of 9 DATE: Jul. 04, 2024

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***** End of Report *****

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