

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

 PAGE: 1 of 5

 REPORT NO. RT21R-S0018-009-E
 DATE: Jan. 14, 2021

| SAMPLE DESCRIPTION | : The following submitted sample(s) said to be:- |
|--|--|
| NAME/TYPE OF PRODUCT SAMPLE ID NO. ITEM NO. MANUFACTURER/VENDOR | : PVC FILM LABEL : RT21R-S0018-009 : CLEAR, WHITE, SHRINK : KOSTIC KOREA LTD. |
| SAMPLE RECEIVED TESTING DATE | : Jan. 04, 2021 : Jan. 04, 2021 ~ Jan. 14, 2021 |
| TEST METHOD(S) TEST RESULT(S) | : Please see the following page(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,



Bo Park / Lab. General Manager

Authenticity check

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REPORT NO. RT21R-S0018-009-E

PAGE: 2 of 5 DATE: Jan. 14, 2021

SAMPLE ID NO. : RT21R-S0018-009

SAMPLE DESCRIPTION : PVC FILM 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) | | | | r. | | | |
| Monobromobiphenyl | mg/kg | | 5 | N.D. | | | |
| Dibromobiphenyl | mg/kg | With reference to IEC 62321-6 Edition 1.0 : 2015, by solvent extraction and determined by GC/MS | 5 | N.D. | | | |
| Tribromobiphenyl | mg/kg | | 5 | N.D. | | | |
| Tetrabromobiphenyl | mg/kg | | 5 | N.D. | | | |
| Pentabromobiphenyl | mg/kg | | 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 (| olybrominated Diphenyl Ether (PBDEs) | | | | | | |
| 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, by solvent extraction and | 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

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

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PAGE: 3 of 5 DATE: Jan. 14, 2021

SAMPLE ID NO. : RT21R-S0018-009 SAMPLE DESCRIPTION : PVC FILM 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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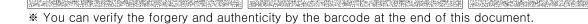


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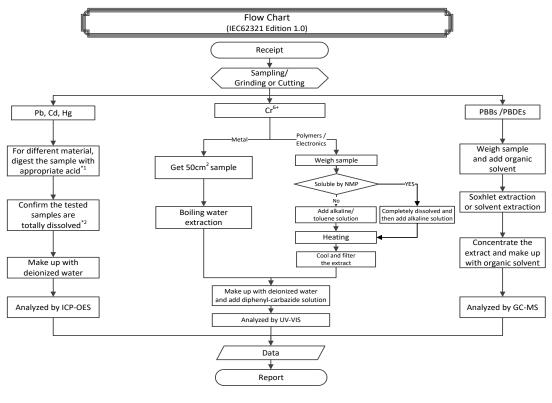
Total Quality. Assured.

TEST REPORT

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SAMPLE ID NO. : RT21R-S0018-009 SAMPLE DESCRIPTION : PVC FILM LABEL



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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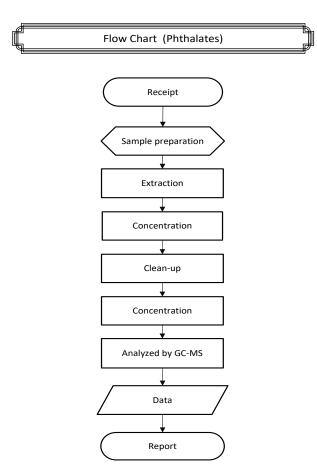
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PAGE: 5 of 5 DATE: Jan. 14, 2021

SAMPLE ID NO. : RT21R-S0018-009 SAMPLE DESCRIPTION : PVC FILM LABEL



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

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