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# TEST REPORT

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



REPORT NO. RT25R-S8297-001-E DATE: Jan. 05, 2026

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

NAME/TYPE OF PRODUCT : LAMI-PET FILM LABEL(Coating)
SAMPLE ID NO. : RT25R-S8297-001
ITEM NO. : LAMI-Series
MANUFACTURER/VENDOR : KOSTIC FORMTEC CO.. LTD.

SAMPLE RECEIVED : Dec. 08, 2025
TESTING DATE : Dec. 08, 2025 ~ Jan. 05, 2026

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,

Nikkie Lee / Lab. Technical Manager

Authorized by,

Jade Jang / Lab. General Manager

Authenticity check

Intertek Testing Services Korea Ltd.
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# TEST REPORT



REPORT NO. RT25R-S8297-001-E
DATE: Jan. 05, 2026

SAMPLE ID NO. : RT25R-S8297-001
SAMPLE DESCRIPTION : LAMI-PET FILM LABEL(Coating)

| TEST ITEM | UNIT | TEST METHOD | MDL | RESULT |
|---|---|---|---|---|
| Cadmium (Cd) | mg/kg | With reference to IEC 62321-5 Edition 1.0 : 2013, by acid digestion and determined by ICP-OES | 0.5 | N.D. |
| Lead (Pb) | mg/kg | | 5 | N.D. |
| Mercury (Hg) | mg/kg | With reference to IEC 62321-4:2013+AMD1:2017 CSV, 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 | With reference to IEC 62321-6 Edition 1.0 : 2015, by solvent extraction and determined by GC/MS | 5 | N.D. |
| Dibromobiphenyl | mg/kg | | 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 (PBDEs) | | | | |
| Monobromodiphenyl ether | mg/kg | With reference to IEC 62321-6 Edition 1.0 : 2015, by solvent extraction and determined by GC/MS | 5 | N.D. |
| Dibromodiphenyl ether | mg/kg | | 5 | N.D. |
| Tribromodiphenyl ether | mg/kg | | 5 | N.D. |
| Tetrabromodiphenyl ether | mg/kg | | 5 | N.D. |
| Pentabromodiphenyl ether | mg/kg | | 5 | N.D. |
| Hexabromodiphenyl ether | mg/kg | | 5 | N.D. |
| Heptabromodiphenyl ether | mg/kg | | 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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# TEST REPORT



REPORT NO. RT25R-S8297-001-E
DATE: Jan. 05, 2026

SAMPLE ID NO. : RT25R-S8297-001
SAMPLE DESCRIPTION : LAMI-PET FILM LABEL(Coating)

| 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. |
| Iodine (I) | mg/kg | With reference to EN 14582, by oxygen combustion with bomb and determined by IC | 30 | N.D. |
| Arsenic (As) | mg/kg | With reference to US EPA 3052, by acid digestion and determined by ICP-OES | 2 | 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 | 92 |
| Medium-chain chlorinated paraffin (MCCP) | mg/kg | With reference to US EPA 3540C, by solvent extraction and determined by LC/MS/MS and/or GC/ECD | 100 | N.D. |
| Polychlorinated biphenyls (PCBs) | mg/kg | With reference to US EPA 3540C/8082, by solvent extraction and determined by GC/MS | 5 | N.D. |
| 2-(2H-Benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328) | mg/kg | With reference to US EPA 3550C, determined by GC/MS | 30 | N.D. |
| Perfluorooctanoic acid (PFOA) | mg/kg | With reference to DIN CEN/TS 15968, by ultrasonic extraction and determined by LC/MS or LC/MS/MS | 0.025 | N.D. |
| Perfluorooctane sulfonate (PFOS) | mg/kg | With reference to DIN CEN/TS 15968, by ultrasonic extraction and determined by LC/MS or LC/MS/MS | 0.025 | N.D. |

Tested by : Chano Kim, Jooyeon Lee, Hayan Park

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# TEST REPORT



REPORT NO. RT25R-S8297-001-E
DATE: Jan. 05, 2026

SAMPLE ID NO. : RT25R-S8297-001
SAMPLE DESCRIPTION : LAMI-PET FILM LABEL(Coating)

| 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. |
| Di-n-octyl phthalate (DNOP) | 117-84-0 | mg/kg | | 50 | N.D. |
| Diisononyl phthalate (DINP) | 28553-12-0<br>68515-48-0 | mg/kg | | 100 | N.D. |
| Diisodecyl phthalate (DIDP) | 26761-40-0<br>68515-49-1 | mg/kg | | 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. |
| Diisooctyl phthalate (DIOP) | 27554-26-3 | mg/kg | | 50 | N.D. |

Tested by : Hayan Park

Notes : mg/kg = ppm = parts per million
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# TEST REPORT



REPORT NO. RT25R-S8297-001-E DATE: Jan. 05, 2026

SAMPLE ID NO. : RT25R-S8297-001
SAMPLE DESCRIPTION : LAMI-PET FILM LABEL(Coating)

* View of sample as received;-

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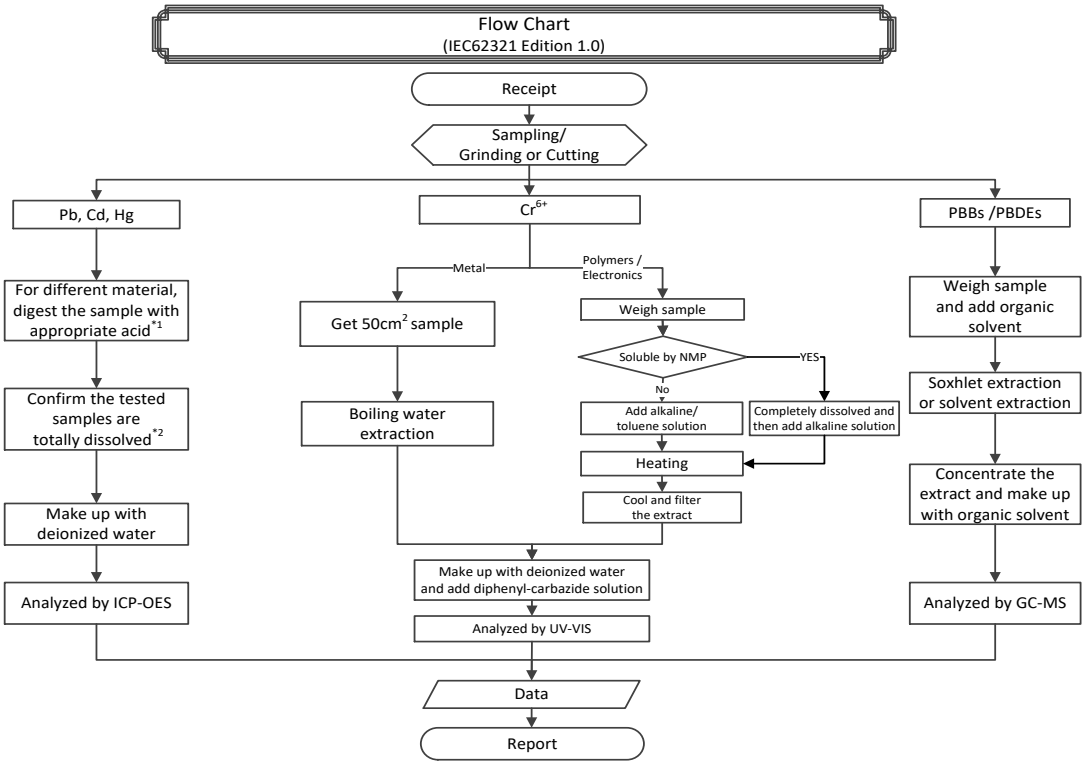
# TEST REPORT



REPORT NO. RT25R-S8297-001-E DATE: Jan. 05, 2026

SAMPLE ID NO. : RT25R-S8297-001
SAMPLE DESCRIPTION : LAMI-PET FILM LABEL(Coating)




Remarks :
*1 : List of appropriate acid :

| Material | Acid added for digestion |
|---|---|
| Polymers | $HNO_3$, HCl, HF, $H_2O_2$, $H3BO_3$ |
| Metals | $HNO_3$, HCl, HF |
| Electronics | $HNO_3$, HCl, $H_2O_2$, $HBF_4$ |

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



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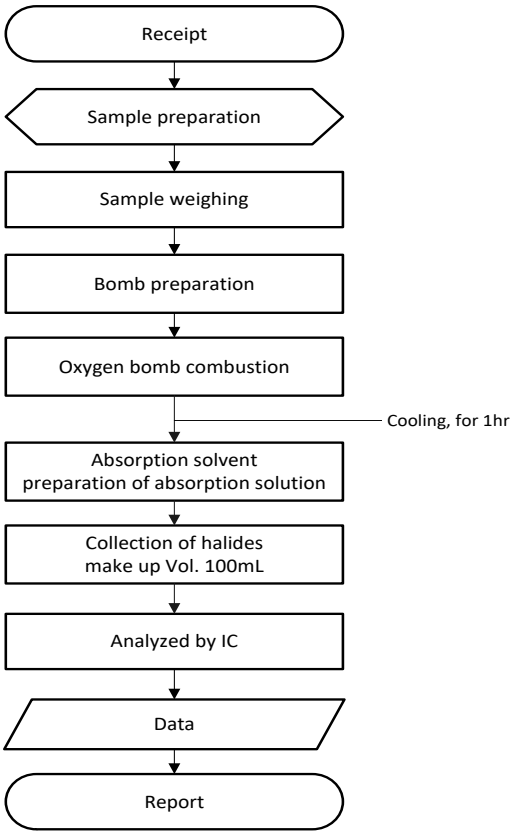
# TEST REPORT



SAMPLE ID NO. : RT25R-S8297-001
SAMPLE DESCRIPTION : LAMI-PET FILM LABEL(Coating)

## Flow Chart (EN14582)



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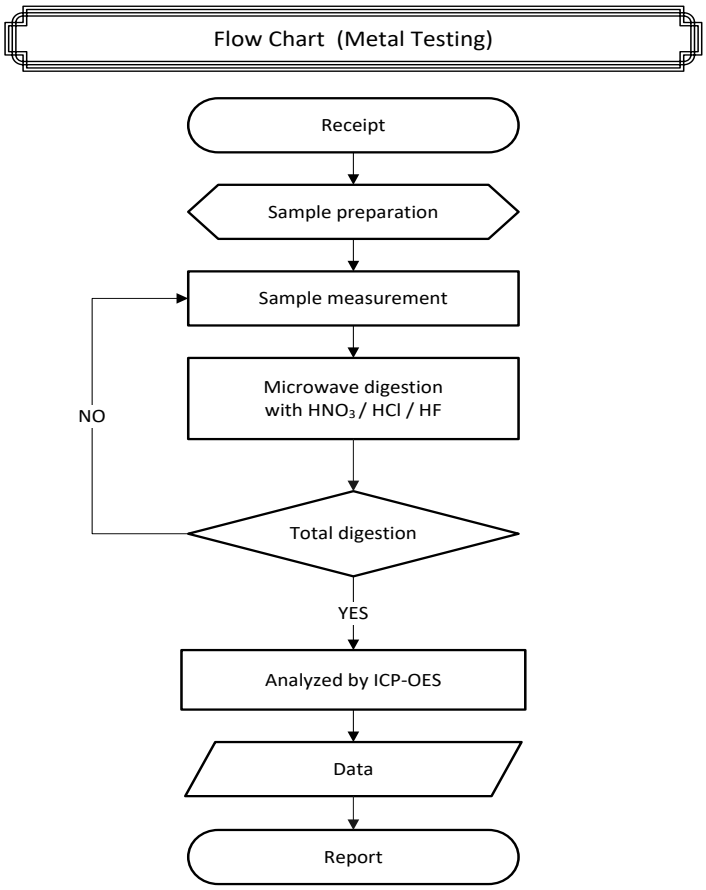
# TEST REPORT



SAMPLE ID NO. : RT25R-S8297-001
SAMPLE DESCRIPTION : LAMI-PET FILM LABEL(Coating)




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



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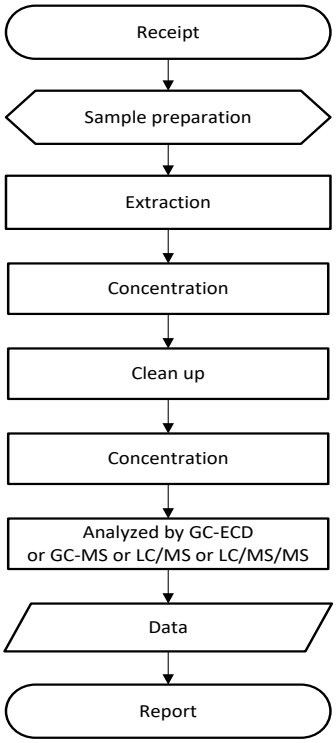
# TEST REPORT



SAMPLE ID NO. : RT25R-S8297-001
SAMPLE DESCRIPTION : LAMI-PET FILM LABEL(Coating)

## Flow Chart (EPA 3540C)



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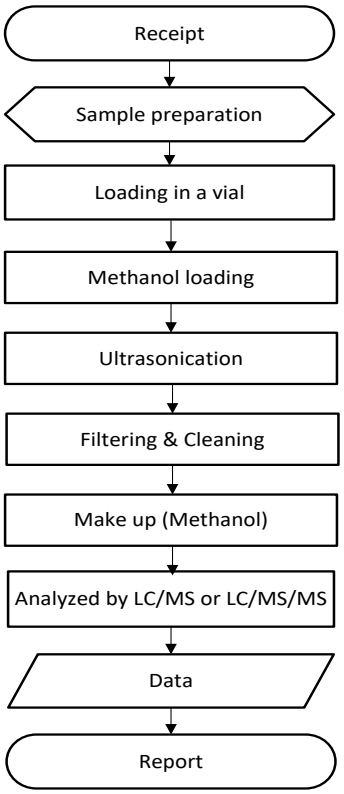
# TEST REPORT



SAMPLE ID NO. : RT25R-S8297-001
SAMPLE DESCRIPTION : LAMI-PET FILM LABEL(Coating)

## Flow Chart (PFOS, PFOA)



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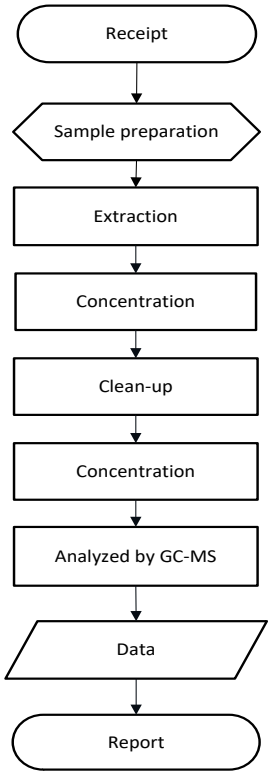
# TEST REPORT



REPORT NO. RT25R-S8297-001-E DATE: Jan. 05, 2026

SAMPLE ID NO. : RT25R-S8297-001
SAMPLE DESCRIPTION : LAMI-PET FILM LABEL(Coating)

## Flow Chart (Phthalates)




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

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