

TEST REPORT

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REPORT NUMBER : TURT230055414
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Attention : Serkan Ağseren (serkan.agseren@catsis.com.tr)
SAMPLE DESCRIPTION : One sample of Black panel (PP'li Bitüm)
DATE IN : 25 May ,2023 (15:59:00)
DATE OUT : 31 May ,2023
REQUEST. Rohs Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

| | | CONCLUSION |
|----------|-------------|------------|
| PART | DESCRIPTION | |
| Sample 1 | Sample | Pass |

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Ezgi Aleyna ARI
Customer Care Executive



Zeynep AKIN
Chemical Laboratory Manager

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(A) TEST RESULT SUMMARY ACCORDING TO IEC 62321

Electrotechnical Products-Determination of Levels of Six Regulated Substances

| TESTING ITEM | RESULT |
|--|-----------------|
| | Sample 1 |
| Cadmium (Cd) Content | ND |
| Chromium VI (Cr+6) Content (ppm) (for non- metal) | ND |
| Chromium VI (Cr+6) Content (µg/cm ²) (for metal) | NA |
| Lead (Pb) Content | ND |
| Mercury (Hg) Content | ND |
| Flame Retardants | |
| Polybrominated Biphenyls (PBB) | ND |
| Monobromobiphenyl (MonoBB) | ND |
| Dibromobiphenyl (DiBB) | ND |
| Tribromobiphenyl (TriBB) | ND |
| Tetrabromobiphenyl (TetraBB) | ND |
| Pentabromobiphenyl (PentaBB) | ND |
| Hexabromobiphenyl (HexaBB) | ND |
| Heptabromobiphenyl (HeptaBB) | ND |
| Octabromobiphenyl (OctaBB) | ND |
| Nonabromobiphenyl (NonaBB) | ND |
| Decabromobiphenyl (DecaBB) | ND |
| Polybrominated Diphenyl Ethers (PBDE) | ND |
| Monobromodiphenyl Ether (MonoBDE) | ND |
| Dibromodiphenyl Ether (DiBDE) | ND |
| Tribromodiphenyl Ether (TriBDE) | ND |
| Tetrabromodiphenyl Ether (TetraBDE) | ND |
| Pentabromodiphenyl Ether (PentaBDE) | ND |
| Hexabromodiphenyl Ether (HexaBDE) | ND |
| Heptabromodiphenyl Ether (HeptaBDE) | ND |
| Octabromodiphenyl Ether (OctaBDE) | ND |
| Nonabromodiphenyl Ether (NonaBDE) | ND |
| Decabromodiphenyl Ether (DecaBDE) | ND |
| Phthalates | |
| Dibutyl phthalate (DBP) (84-74-2) | ND |
| Diethyl Hexyl Phthalate (DEHP) (117-81-7) | ND |

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| TESTING ITEM | RESULT |
|--|-----------------|
| | Sample 1 |
| Benzyl butyl phthalate (BBP) (85-68-7) | ND |
| Diisobutyl Phthalate (DIBP) (84-69-5) | ND |

Remarks : ppm=Parts per million based on dry weight of sample
µg/cm²=Microgram per square centimetre
mg/kg with 50 cm²=Milligram per kilogram with 50 square centimetre
ND =Not detected NA =Not applicable NR =Not requested

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(B) REQUIREMENT:

| SUBSTANCE | LIMITS | |
|---|---|---|
| Cadmium (Cd) Content | 0.01 % (100 ppm) | |
| Chromium VI (Cr+6) Content (ppm) (for non metal) | 0.1 % (1000 ppm) | |
| Chromium VI (Cr+6) Content ($\mu\text{g}/\text{cm}^2$) (for metal) | <u>Colorimetric result</u> < 0.10 $\mu\text{g}/\text{cm}^2$ $\geq 0.10 \mu\text{g}/\text{cm}^2$ and $\leq 0.13 \mu\text{g}/\text{cm}^2$ > 0.13 $\mu\text{g}/\text{cm}^2$ | <u>Qualitative Result</u> Negative Inconclusive Positive |
| Lead (Pb) Content | 0.1 % (1000 ppm) | |
| Mercury (Hg) Content | 0.1 % (1000 ppm) | |
| Flame Retardants | 0.1 % (1000 ppm) | |
| Dibutyl Phthalate (DBP) | 0.1 % (1000 ppm) | |
| Diethyl Hexyl Phthalate (DEHP) | 0.1 % (1000 ppm) | |
| Benzyl Butyl Phthalate (BBP) | 0.1 % (1000 ppm) | |
| Diisobutyl Phthalate (DIBP) | 0.1 % (1000 ppm) | |

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(C) TEST METHOD :

| Testing Item | Testing Method | Reporting Limit | Uncertainty |
|------------------------------------|--|--|---|
| Cadmium (Cd) Content | With reference to IEC 62321-5:2013,by microwave or acid digestion and determined by ICP-OES | Plastic: 10 ppm / Metal: 4 ppm / Seramic: 5 ppm | Plastic: 9% Metal-Pb&Cd&Cr: 13% Metal-Hg: 12% Ceramic/Glass: 10% |
| Lead (Pb) Content | With reference to IEC 62321-5:2013,by microwave or acid digestion and determined by ICP-OES | Plastic: 10 ppm / Metal: 4 ppm / Seramic: 5 ppm | |
| Mercury (Hg) Content | With reference to IEC 62321-4:2017,by microwave or acid digestion and determined by ICP-OES | Plastic: 10 ppm / Metal: 10 ppm / Seramic: 5 ppm | |
| Chromium VI (Cr6+) (For non-metal) | With reference to IEC 62321-7-2:2017,by alkaline digestion and determined by UV-VIS spectrophotometer | Plastic 25 ppm (PVC Based) / 8,33 ppm (Other) | Plastic-PVC 8% Plastic-PP 6% Ceramic/Glass 6% |
| Chromium VI (Cr6+) (For metal) | With reference to IEC 62321-7-1:2015 ,by boiling water extraction and determined by UV-VIS spectrophotometer | 0,1 ppm with 50 cm2 (In testing solution) | 12% |
| PBBs/PBDEs | With reference to IEC 62321-6:2015,by solvent extraction and determined by GC/MS and HPLC | 5 ppm | 15% |
| Phthalates | With reference to IEC 62321-8 (111/321/CD), by solvent extraction and determined by GC-MS. | 50 ppm | 16% |

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Sample 1



END OF TEST REPORT