# LATIOHM 36-08 PD02-V0

## LATI INDUSTRIA TERMOPLASTICI SPA - *Acrylonitrile Butadiene Styrene*

### General Information

**Product Description**

Semiconductive/dissipative product based on Acrylonitrile-Butadiene-Styrene copolymer (ABS). Flame retardant, UL94 V-0 class, with brominated flame retardants, free of PBB/PBDE. Hygroscopic material: check suitability for the part.

| General | | | |
|---|---|---|---|
| Material Status | • Commercial: Active | | |
| Availability | • Africa & Middle East<br>• Asia Pacific | • Europe<br>• Latin America | • North America |
| Additive | • Flame Retardant | | |
| Features | • Antistatic<br>• Brominated | • Electrically Conductive<br>• Flame Retardant | |

### Properties [1]

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density (73°F) | 1.31 | g/cm³ | ISO 1183 |
| Molding Shrinkage [2] | | | ISO 294-4 |
| Across Flow : 0.0787 in | 0.40 to 0.60 | % | |
| Flow : 0.0787 in | 0.40 to 0.60 | % | |
| Water Absorption [3] (Saturation, 73°F) | 0.40 | % | ISO 62 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Modulus (73°F) | 232000 | psi | ISO 527-1/1 |
| Tensile Stress (Yield, 73°F) | 3630 | psi | ISO 527-2/5 |
| Tensile Stress (Break, 73°F) | 3630 | psi | ISO 527-2/5 |
| Tensile Strain (Yield, 73°F) | 4.3 | % | ISO 527-2/5 |
| Tensile Strain (Break, 73°F) | 15 | % | ISO 527-2/5 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Charpy Notched Impact Strength (73°F) | 2.1 | ft·lb/in² | ISO 179/1eA |
| Charpy Unnotched Impact Strength (73°F) | 33 | ft·lb/in² | ISO 179/1eU |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Deflection Temperature Under Load (66 psi, Unannealed) | 185 | °F | ISO 75-2/B |
| Deflection Temperature Under Load (264 psi, Unannealed) | 158 | °F | ISO 75-2/A |
| Vicat Softening Temperature | 176 | °F | ISO 306/B120 |
| CLTE - Flow (86 to 212°F) | 4.2E-5 | in/in/°F | ISO 11359-2 |
| CLTE - Transverse (86 to 212°F) | 4.2E-5 | in/in/°F | ISO 11359-2 |
| **Electrical** | **Nominal Value** | **Unit** | **Test Method** |
| Surface Resistivity | 2.0E+8 | ohms | ASTM D257 |
| Comparative Tracking Index [4] (Solution A) | 300 | V | IEC 60112 |
| **Flammability** | **Nominal Value** | **Unit** | **Test Method** |
| Flame Rating | | | UL 94 |
| 0.030 in | V-0 | | |
| 0.06 in | V-0 | | |

### Notes

[1] Typical properties: these are not to be construed as specifications.

[2] 60 MPa

[3] in air

[4] without surfactant