

LARTON MDT16-02 NAT.:0201

 LATI INDUSTRIA TERMOPLASTICI SPA - *Polyphenylene Sulfide*
General Information
Product Description

Compound based on Polyphenylene Sulphide (PPS). Magnetic and X-Rays detectable filler. Intrinsically flame retardant. Very good chemical resistance. Very good thermal properties. Low smoke density and low toxicity index. PFAS-free product.

General

| | | | |
|------------------------|--|-----------------------------------|--------------------|
| Material Status | • Commercial: Active | | |
| Availability | • Africa & Middle East • Asia Pacific | • Europe • Latin America | • North America |
| Filler / Reinforcement | • Filler | | |
| Features | • Flame Retardant • Magnetically Detectable | • Metal Detectable • PFAS Free | • X-Ray Detectable |

Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|---|---------------|-------------------------------|----------------|
| Density (73°F) | 2.97 | g/cm ³ | ISO 1183 |
| Molding Shrinkage ² | | | ISO 294-4 |
| Across Flow : 0.0787 in | 0.65 to 0.85 | % | |
| Flow : 0.0787 in | 0.60 to 0.85 | % | |
| Water Absorption ³ (Saturation, 73°F) | 0.010 | % | ISO 62 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus (73°F) | 1.71E+6 | psi | ISO 527-1/1 |
| Tensile Stress (Break, 73°F) | 4350 | psi | ISO 527-2/5 |
| Tensile Strain (Break, 73°F) | 0.40 | % | ISO 527-2/5 |
| Impact | Nominal Value | Unit | Test Method |
| Charpy Notched Impact Strength (73°F) | 0.95 | ft·lb/in ² | ISO 179/1eA |
| Charpy Unnotched Impact Strength (73°F) | 1.9 | ft·lb/in ² | ISO 179/1eU |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (66 psi, Unannealed) | 464 | °F | ISO 75-2/B |
| Deflection Temperature Under Load (264 psi, Unannealed) | 356 | °F | ISO 75-2/A |
| Vicat Softening Temperature | 491 | °F | ISO 306/B120 |
| CLTE - Flow (86 to 212°F) | 2.2E-5 | in/in/°F | ISO 11359-2 |
| CLTE - Transverse (86 to 212°F) | 2.5E-5 | in/in/°F | ISO 11359-2 |
| Thermal Conductivity | | | ASTM E1461 |
| ⁴ | 3.5 | Btu·in/hr/ft ² /°F | |
| ⁵ | 3.5 | Btu·in/hr/ft ² /°F | |
| Electrical | Nominal Value | Unit | Test Method |
| Surface Resistivity | 1.0E+4 | ohms | ASTM D257 |
| Comparative Tracking Index ⁶ (Solution A) | 125 | V | IEC 60112 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating | | | UL 94 |
| 0.030 in | V-0 | | |
| 0.06 in | V-0 | | |
| 0.12 in | V-0 | | |
| Glow Wire Flammability Index | | | IEC 60695-2-12 |
| 0.04 in | 1760 | °F | |
| 0.08 in | 1760 | °F | |
| Glow Wire Ignition Temperature | | | IEC 60695-2-13 |
| 0.04 in | 1430 | °F | |



0.08 in

1430 °F

Notes

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

² 60 MPa

³ in air

⁴ through plane

⁵ in plane

⁶ without surfactant

