

LATICONTHER 80 GR/50

PPS-CD

LATI Industria Termoplastici S.p.A.

| Processing/Physical Characteristics | Value | Unit | Test Standard |
|-------------------------------------|-------|------|-----------------|
| ISO Data | | | |
| Molding shrinkage, parallel | 0.4 | % | ISO 294-4, 2577 |
| Molding shrinkage, normal | 0.5 | % | ISO 294-4, 2577 |

| Mechanical properties | Value | Unit | Test Standard |
|---------------------------------------|-------|-------------------|---------------|
| ISO Data | | | |
| Tensile Modulus | 14500 | MPa | ISO 527 |
| Stress at break | 60 | MPa | ISO 527 |
| Strain at break | 0.6 | % | ISO 527 |
| Charpy impact strength, +23°C | 5 | kJ/m ² | ISO 179/1eU |
| Charpy notched impact strength, +23°C | 2 | kJ/m ² | ISO 179/1eA |

| Thermal properties | Value | Unit | Test Standard |
|---|-------|-------|----------------|
| ISO Data | | | |
| Temp. of deflection under load, 1.80 MPa | 230 | °C | ISO 75-1/-2 |
| Temp. of deflection under load, 0.45 MPa | 275 | °C | ISO 75-1/-2 |
| Vicat softening temperature, B | 245 | °C | ISO 306 |
| Coeff. of linear therm. expansion, parallel | 20 | E-6/K | ISO 11359-1/-2 |
| Glow Wire Flammability Index (GWFI) | 960 | °C | IEC 60695-2-12 |
| GWFI - thickness tested (1) | 1 | mm | - |
| Glow Wire Flammability Index (GWFI) | 960 | °C | IEC 60695-2-12 |
| GWFI - thickness tested (2) | 2 | mm | - |
| ASTM Data | | | |
| UL 94 Flame rating | V-0 | - | UL 94 |
| Thickness tested | 0.75 | mm | - |

| Other Standards ^[5] | Value | Unit | Test Standard |
|-----------------------------------|-------|---------|----------------|
| Thermal Conductivity, solid state | 1.44 | W/(m K) | ASTM E 1461-92 |

S: These properties are reported by the producer according standards that are different to our defaults.

| Electrical properties | Value | Unit | Test Standard |
|-----------------------|-------|--------|---------------|
| ASTM Data | | | |
| Surface Resistivity | 1000 | Ohm | ASTM D 257 |
| Volume Resistivity | 1000 | Ohm*cm | ASTM D 257 |

| Other properties | Value | Unit | Test Standard |
|------------------|-------|-------------------|---------------|
| Density | 1710 | kg/m ³ | ISO 1183 |

| Processing Recommendation Injection Molding | Value | Unit | Test Standard |
|---|-----------|------|---------------|
| Pre-drying - Temperature | 100 - 130 | °C | - |
| Pre-drying - Time | 3 | h | - |
| Melt temperature | 290 - 320 | °C | - |
| Mold temperature | 130 - 140 | °C | - |

Characteristics**Processing**

Injection Molding

Regional Availability

Europe

Special Characteristics

Thermally Conductive