

PRL TP-HG15

Polybutylene Terephthalate

Polymer Resources Ltd.

Message:

PRL TP-HG15 is a Polybutylene Terephthalate (PBT) product filled with 15% glass fiber. It can be processed by injection molding and is available in North America.

Characteristics include:

RoHS Compliant

Good Aesthetics

Heat Resistant

| General Information | | | |
|---|----------------------------------|-------------------|-------------|
| Filler / Reinforcement | Glass Fiber,15% Filler by Weight | | |
| Features | Good Surface Finish | | |
| | High Heat Resistance | | |
| RoHS Compliance | RoHS Compliant | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.45 | g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (250°C/2.16 kg) | 10 to 20 | g/10 min | ASTM D1238 |
| Molding Shrinkage - Flow (3.18 mm) | 0.60 to 1.0 | % | ASTM D955 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength | | | ASTM D638 |
| Yield, 3.18 mm | 89.6 | MPa | |
| Break, 3.18 mm | 89.6 | MPa | |
| Flexural Modulus (3.18 mm) | 4450 | MPa | ASTM D790 |
| Flexural Strength (3.18 mm) | 138 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C, 3.18 mm) | 27 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, Unannealed, 3.18 mm | 207 | °C | |
| 1.8 MPa, Unannealed, 3.18 mm | 157 | °C | |
| Injection | Nominal Value | Unit | |
| Drying Temperature | 116 to 121 | °C | |
| Drying Time | 3.0 to 4.0 | hr | |
| Drying Time, Maximum | 8.0 | hr | |
| Rear Temperature | 238 to 254 | °C | |
| Middle Temperature | 243 to 260 | °C | |

| | | |
|------------------------|--------------|----|
| Front Temperature | 249 to 266 | °C |
| Processing (Melt) Temp | 232 to 260 | °C |
| Mold Temperature | 71.1 to 87.8 | °C |

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