

OmniTech™ PBT GR15

Polybutylene Terephthalate

OMNI Plastics, LLC

Message:

OmniTech™ PBT GR15 is a Polybutylene Terephthalate (PBT) product filled with 15% glass fiber. It can be processed by injection molding and is available in North America.

| General Information | | | |
|-------------------------------------|----------------------------------|-------|-------------|
| Filler / Reinforcement | Glass Fiber,15% Filler by Weight | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.41 | g/cm³ | ASTM D792 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (Yield, 23°C) | 93.0 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 5.0 | % | ASTM D638 |
| Flexural Modulus | 4830 | MPa | ASTM D790 |
| Flexural Strength (Break) | 138 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (23°C, 3.18 mm) | 53 | J/m | ASTM D256 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, Unannealed | 210 | °C | |
| 1.8 MPa, Unannealed | 191 | °C | |
| Injection | Nominal Value | Unit | |
| Drying Temperature | 116 | °C | |
| Drying Time | 3.0 to 4.0 | hr | |
| Suggested Max Moisture | 0.020 | % | |
| Rear Temperature | 238 to 271 | °C | |
| Middle Temperature | 249 to 277 | °C | |
| Front Temperature | 249 to 277 | °C | |
| Nozzle Temperature | 249 to 277 | °C | |
| Processing (Melt) Temp | 238 to 271 | °C | |
| Mold Temperature | 26.7 to 82.2 | °C | |
| Back Pressure | 0.345 to 0.689 | MPa | |

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