

RTP 1707

Polyphenylene Ether

RTP Company

Message:

Warning: The status of this material is 'Commercial: Limited Issue'

The data for this material has not been recently verified.

Please contact RTP Company for current information prior to specifying this grade.

-Preliminary Product Data per RTP Co.-

| General Information | | | |
|---|---|-------------------|-------------|
| Filler / Reinforcement | Glass fiber reinforced material, 40% filler by weight | | |
| Features | Heat resistance, medium | | |
| RoHS Compliance | Contact manufacturer | | |
| Appearance | Black Natural color | | |
| Forms | Particle | | |
| Processing Method | Injection molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.40 | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow (3.18 mm) | 0.10 | % | ASTM D955 |
| Water Absorption (23°C, 24 hr) | 0.10 | % | ASTM D570 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 10300 | MPa | ASTM D638 |
| Tensile Strength | 100 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 1.5 | % | ASTM D638 |
| Flexural Modulus | 9160 | MPa | ASTM D790 |
| Flexural Strength | 152 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (3.18 mm) | 59 | J/m | ASTM D256 |
| Unnotched Izod Impact (3.18 mm) | 350 | J/m | ASTM D4812 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 138 | °C | ASTM D648 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating (1.59 mm, Values per RTP Company testing.) | HB | | UL 94 |
| Additional Information | | | |
| Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 2mil/in. Glass Fiber reinforced PPE products have a good combination of mechanical properties, heat resistance and economics. | | | |
| Injection | Nominal Value | Unit | |
| Rear Temperature | 260 - 288 | °C | |

| | | |
|--------------------|------------|-----|
| Middle Temperature | 260 - 288 | °C |
| Front Temperature | 260 - 288 | °C |
| Mold Temperature | 66.0 - 121 | °C |
| Injection Pressure | 96.0 - 117 | MPa |

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Recommended distributors for this material

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