

RTP 1000.5 FR A

Polybutylene Terephthalate

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.

| General Information | | | |
|-------------------------------------------------|--------------------------------------------------------|-------------------|-------------|
| UL YellowCard | E84658-251409 | | |
| Filler / Reinforcement | Glass fiber reinforced material, 5.0% filler by weight | | |
| Features | Flame retardancy | | |
| RoHS Compliance | Contact manufacturer | | |
| Appearance | Black | | |
| | Natural color | | |
| Forms | Particle | | |
| Processing Method | Injection molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.44 | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow | | | ASTM D955 |
| 3.18mm, injection molding | 1.1 | % | ASTM D955 |
| 6.35mm, injection molding | 1.3 | % | ASTM D955 |
| Water Absorption (23°C, 24 hr) | 0.080 | % | ASTM D570 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale) | 118 | | ASTM D785 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus (Injection Molded) | 4480 | MPa | ASTM D638 |
| Tensile Strength | 69.0 | MPa | ASTM D638 |
| Tensile Elongation (Yield, Injection Molded) | 5.5 | % | ASTM D638 |
| Flexural Modulus (Injection Molded) | 4130 | MPa | ASTM D790 |
| Flexural Strength (Injection Molded) | 110 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (3.18 mm, Injection Molded) | 53 | J/m | ASTM D256 |
| Unnotched Izod Impact (3.18 mm) | 590 | J/m | ASTM D4812 |
| Thermal | Nominal Value | Unit | Test Method |
| CLTE - Flow | 4.5E-5 | cm/cm/°C | ASTM D696 |
| Thermal Conductivity | 0.17 | W/m/K | ASTM C177 |
| Electrical | Nominal Value | Unit | Test Method |

| | | | |
|------------------------|---------------|---------|-------------|
| Volume Resistivity | 1.0E+16 | ohms·cm | ASTM D257 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating (1.50 mm) | V-0 | | UL 94 |

Additional Information

The value listed as Flammability, UL 94, was tested in accordance with RTP Company methods.

| Injection | Nominal Value | Unit |
|--------------------|---------------|------|
| Rear Temperature | 232 - 257 | °C |
| Middle Temperature | 232 - 257 | °C |
| Front Temperature | 232 - 257 | °C |
| Mold Temperature | 79.0 - 107 | °C |
| Injection Pressure | 69.0 - 103 | MPa |

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