

RTP 381 TFE 5

Polycarbonate
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 | | | |
|--|--|-------------------|-------------|
| Filler / Reinforcement | Carbon fiber reinforced material, 10% filler by weight | | |
| Additive | PTFE lubricant (5%) | | |
| Features | Lubrication | | |
| RoHS Compliance | Contact manufacturer | | |
| Appearance | Black | | |
| | Natural color | | |
| Forms | Particle | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.27 | 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 | 7580 | MPa | ASTM D638 |
| Tensile Strength | 89.6 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 2.5 | % | ASTM D638 |
| Flexural Modulus | 6210 | MPa | ASTM D790 |
| Flexural Strength | 131 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (3.18 mm) | 53 | J/m | ASTM D256 |
| Unnotched Izod Impact (3.18 mm) | 530 | J/m | ASTM D4812 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, not annealed | 143 | °C | ASTM D648 |
| 1.8 MPa, not annealed | 138 | °C | ASTM D648 |
| Electrical | Nominal Value | Unit | Test Method |
| Volume Resistivity | 10 | ohms · cm | ASTM D257 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating (1.59 mm) | HB | | UL 94 |
| Additional Information | | | |
| The value listed as Flammability, UL 94, was tested in accordance with RTP test standards.Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 2mil/in.Tensile Elongation, ASTM D-638: 2-3%Volume Resistivity, ASTM D-257: 1E1-1E3 ohm-cm | | | |

| Injection | Nominal Value | Unit |
|--------------------|---------------|------|
| Rear Temperature | 316 - 343 | °C |
| Middle Temperature | 316 - 343 | °C |
| Front Temperature | 316 - 343 | °C |
| Mold Temperature | 65.6 - 121 | °C |
| Injection Pressure | 103 - 138 | MPa |

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Recommended distributors for this material

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