

RTP 384 TFE 15

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, 25% filler by weight | | |
| Additive | PTFE lubricant (15%) | | |
| Features | Lubrication | | |
| RoHS Compliance | Contact manufacturer | | |
| Appearance | Black | | |
| | Natural color | | |
| Forms | Particle | | |
| Processing Method | Injection molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.39 | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow (3.18 mm) | 0.10 | % | ASTM D955 |
| Water Absorption (23°C, 24 hr) | 0.060 | % | ASTM D570 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 16500 | MPa | ASTM D638 |
| Tensile Strength | 124 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 1.0 | % | ASTM D638 |
| Flexural Modulus | 13100 | MPa | ASTM D790 |
| Flexural Strength | 193 | MPa | ASTM D790 |
| Coefficient of Friction (With Metal-Dynamic) | 0.20 | | ASTM D1894 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (6.35 mm) | 96 | J/m | ASTM D256 |
| Unnotched Izod Impact (6.35 mm) | 430 | J/m | ASTM D4812 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, not annealed | 149 | °C | ASTM D648 |
| 1.8 MPa, not annealed | 143 | °C | ASTM D648 |
| Electrical | Nominal Value | Unit | Test Method |
| Surface Resistivity | 1.0E+5 | ohms | ASTM D257 |
| Volume Resistivity | 1.0E+3 | ohms · cm | ASTM D257 |
| Flammability | Nominal Value | Unit | Test Method |

| | | |
|--|---------------|-------|
| Flame Rating | HB | UL 94 |
| Additional Information | | |
| Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 2mil/in.Tensile Elongation, ASTM D-638: 1-2%Flammability, ASTM D-635: B in/min.Coefficient of Friction, Dynamic, ASTM D-3702: 0.20Wear Factor, K, ASTM D-3702: 25E-10in ³ /min/ft/lb/hrThe wear factor and dynamic coefficient of friction were both tested on thrust washer apparatus at 300 FPM, 8500 PV, against 1141 Ryex steel of hardness 18-22 Rockwell C, 12-16 micro smoothness. | | |
| Injection | Nominal Value | Unit |
| Drying Temperature | 121 | °C |
| Drying Time | 4.0 | hr |
| Suggested Max Moisture | 0.020 | % |
| Suggested Max Regrind | 20 | % |

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