

RTP 2100 AR 15 TFE 10

Polyether Imide

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 | Aramid fiber, 15% filler by weight | | |
| Additive | PTFE lubricant (10%) | | |
| Features | Lubrication | | |
| RoHS Compliance | Contact manufacturer | | |
| Appearance | Black | | |
| | Natural color | | |
| Forms | Particle | | |
| Processing Method | Injection molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.35 | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow (3.18 mm) | 0.40 | % | ASTM D955 |
| Water Absorption (23°C, 24 hr) | 0.20 | % | ASTM D570 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 4480 | MPa | ASTM D638 |
| Tensile Strength | 93.1 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 4.0 | % | ASTM D638 |
| Flexural Modulus | 4140 | MPa | ASTM D790 |
| Flexural Strength | 131 | MPa | ASTM D790 |
| Coefficient of Friction (With Metal-Dynamic) | 0.10 | | ASTM D1894 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (3.18 mm) | 53 | J/m | ASTM D256 |
| Unnotched Izod Impact (3.18 mm) | 370 | J/m | ASTM D4812 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, not annealed | 213 | °C | ASTM D648 |
| 1.8 MPa, not annealed | 204 | °C | ASTM D648 |
| Thermal Conductivity | 0.25 | 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 | V-0 | | UL 94 |
| Additional Information | | | |
| Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 4mil/in.Wear Factor, K, ASTM D-3702: 50E-10in ³ /min/ft/lb/hrCoefficient of Friction, Dynamic, ASTM D-3702: 0.10The wear factor and coefficient of friction were both tested on a Falex Model No.6 Wear Testing Machine at 50 FPM, 2000 PV, against C1018 steel of hardness 15-25 Rockwell C, 14-17 micro smoothness. | | | |
| Injection | Nominal Value | Unit | |
| Drying Temperature | 149 | °C | |
| Drying Time | 4.0 | hr | |
| Suggested Max Moisture | 0.020 | % | |
| Suggested Max Regrind | 20 | % | |
| Rear Temperature | 343 - 399 | °C | |
| Middle Temperature | 343 - 399 | °C | |
| Front Temperature | 343 - 399 | °C | |
| Mold Temperature | 93.3 - 177 | °C | |
| Injection Pressure | 103 - 138 | MPa | |
| Back Pressure | 0.345 - 0.517 | MPa | |
| Clamp Tonnage | 6.9 - 11 | kN/cm ² | |

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