

RTP 2200 LF AR 15 TFE 10

Polyetheretherketone

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 | Aramid fiber, 15% filler by weight | | |
| Additive | PTFE lubricant (10%) | | |
| Features | Low liquidity | | |
| | 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, Injection Molded) | 0.90 | % | ASTM D955 |
| Water Absorption (23°C, 24 hr) | 0.17 | % | ASTM D570 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus (Injection Molded) | 5170 | MPa | ASTM D638 |
| Tensile Strength | 83.0 | MPa | ASTM D638 |
| Tensile Elongation (Yield, Injection Molded) | 4.0 | % | ASTM D638 |
| Flexural Modulus (Injection Molded) | 4820 | MPa | ASTM D790 |
| Flexural Strength (Injection Molded) | 145 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (3.18 mm, Injection Molded) | 37 | J/m | ASTM D256 |
| Unnotched Izod Impact (3.18 mm) | 640 | J/m | ASTM D4812 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed, Injection Molded) | 260 | °C | ASTM D648 |
| 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 Flammibility, UL 94, was tested in accordance with RTP Company methods.


| Injection | Nominal Value | Unit |
|--------------------|---------------|------|
| Rear Temperature | 343 - 388 | °C |
| Middle Temperature | 343 - 388 | °C |
| Front Temperature | 343 - 388 | °C |
| Mold Temperature | 163 - 218 | °C |
| Injection Pressure | 83.0 - 124 | MPa |

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Recommended distributors for this material

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