

RTP 200.5 TFE 20 SI

Polyamide 66

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 | Glass fiber reinforced material, 5.0% filler by weight | | |
| Additive | PTFE lubricant (20%) | | |
| | Silicone lubricant | | |
| Features | Lubrication | | |
| RoHS Compliance | Contact manufacturer | | |
| Appearance | Black | | |
| | Natural color | | |
| Forms | Particle | | |
| Processing Method | Injection molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.30 | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow (3.18 mm) | 1.0 | % | ASTM D955 |
| Water Absorption (23°C, 24 hr) | 0.80 | % | ASTM D570 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale) | 119 | | ASTM D785 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 3450 | MPa | ASTM D638 |
| Tensile Strength | 82.7 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 4.0 | % | ASTM D638 |
| Flexural Modulus | 3030 | MPa | ASTM D790 |
| Flexural Strength | 117 | MPa | ASTM D790 |
| Compressive Strength | 68.9 | MPa | ASTM D695 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (6.35 mm) | 53 | J/m | ASTM D256 |
| Unnotched Izod Impact (6.35 mm) | 530 | J/m | ASTM D4812 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, not annealed | 243 | °C | ASTM D648 |
| 1.8 MPa, not annealed | 227 | °C | ASTM D648 |
| Electrical | Nominal Value | Unit | Test Method |

| | | | |
|------------------------|---------------|---------|-------------|
| Volume Resistivity | 1.0E+15 | 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.: 14mil/in. Tensile Elongation, ASTM D-638: 4-6% Flammability, ASTM D-635: B in/min.

| Injection | Nominal Value | Unit |
|------------------------|---------------|------|
| Drying Temperature | 79.4 | °C |
| Drying Time | 4.0 | hr |
| Suggested Max Moisture | 0.20 | % |
| Suggested Max Regrind | 20 | % |
| Rear Temperature | 274 - 288 | °C |
| Middle Temperature | 274 - 288 | °C |
| Front Temperature | 274 - 288 | °C |
| Mold Temperature | 65.6 - 107 | °C |
| Injection Pressure | 82.7 - 138 | MPa |

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