

RTP 800 TFE 20 UV

Acetal (POM) Copolymer

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 | | | |
|---|----------------------|-------|-------------|
| Additive | PTFE lubricant (20%) | | |
| Features | Lubrication | | |
| RoHS Compliance | Contact manufacturer | | |
| Appearance | Black | | |
| | Natural color | | |
| Forms | Particle | | |
| Processing Method | Injection molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.51 | g/cm³ | ASTM D792 |
| Molding Shrinkage - Flow | | | ASTM D955 |
| 3.18mm, injection molding | 1.9 | % | ASTM D955 |
| 6.35mm, injection molding | 3.0 | % | ASTM D955 |
| Water Absorption (23°C, 24 hr) | 0.15 | % | ASTM D570 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale) | 110 | | ASTM D785 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus (Injection Molded) | 2270 | MPa | ASTM D638 |
| Tensile Strength | 45.0 | MPa | ASTM D638 |
| Tensile Elongation (Yield, Injection Molded) | 10 | % | ASTM D638 |
| Flexural Modulus (Injection Molded) | 2070 | MPa | ASTM D790 |
| Flexural Strength (Injection Molded) | 64.0 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (3.18 mm, Injection Molded) | 80 | 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 | | | ASTM D648 |
| 0.45 MPa, unannealed, injection molded | 149 | °C | ASTM D648 |
| 1.8 MPa, unannealed, injection molded | 102 | °C | ASTM D648 |
| Electrical | Nominal Value | Unit | Test Method |

| | | | |
|------------------------|---------------|---------|-------------|
| Volume Resistivity | 1.0E+14 | ohms·cm | ASTM D257 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating (1.50 mm) | HB | | UL 94 |
| Additional Information | | | |

The value listed as Flammability, UL 94, was tested in accordance with RTP Company methods.

| | | |
|--------------------|---------------|------|
| Injection | Nominal Value | Unit |
| Rear Temperature | 177 - 210 | °C |
| Middle Temperature | 177 - 210 | °C |
| Front Temperature | 177 - 210 | °C |
| Mold Temperature | 79.0 - 107 | °C |
| Injection Pressure | 69.0 - 103 | MPa |

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