

RTP 106.5 SI

Polypropylene Homopolymer

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 | Glass fiber reinforced material, 35% filler by weight | | |
| Additive | Silicone lubricant | | |
| Features | Lubrication | | |
| RoHS Compliance | Contact manufacturer | | |
| Appearance | Natural color | | |
| Forms | Particle | | |
| Processing Method | Injection molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.18 | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow (3.18 mm) | 0.40 | % | ASTM D955 |
| Water Absorption (23°C, 24 hr) | 0.045 | % | ASTM D570 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale) | 98 | | ASTM D785 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 8620 | MPa | ASTM D638 |
| Tensile Strength | 55.8 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 2.0 | % | ASTM D638 |
| Flexural Modulus | 5790 | MPa | ASTM D790 |
| Flexural Strength | 70.3 | MPa | ASTM D790 |
| Compressive Strength | 60.0 | MPa | ASTM D695 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (3.18 mm) | 72 | J/m | ASTM D256 |
| Unnotched Izod Impact (3.18 mm) | 200 | J/m | ASTM D4812 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, not annealed | 160 | °C | ASTM D648 |
| 1.8 MPa, not annealed | 149 | °C | ASTM D648 |
| CLTE - Flow | 3.6E-5 | cm/cm/°C | ASTM D696 |
| Thermal Conductivity | 0.35 | W/m/K | ASTM C177 |
| Electrical | Nominal Value | Unit | Test Method |
| Volume Resistivity | 1.0E+15 | ohms · cm | ASTM D257 |

| | | | |
|---|----------------------|-------------|--------------------|
| Dielectric Strength | 21 | kV/mm | ASTM D149 |
| Dielectric Constant (1 MHz) | 3.00 | | ASTM D150 |
| Dissipation Factor (1 MHz) | 1.5E-3 | | ASTM D150 |
| Arc Resistance | 111 | sec | ASTM D495 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating (1.59 mm, Values per RTP Company testing.) | HB | | UL 94 |
| Additional Information | | | |
| Mold Shrinkage, ASTM D-955, 0.25in.: 5mil/in. | | | |
| Injection | Nominal Value | Unit | |
| Drying Temperature | 82.2 | °C | |
| Drying Time | 2.0 | hr | |
| Suggested Max Re grind | 20 | % | |
| Rear Temperature | 232 - 274 | °C | |
| Middle Temperature | 232 - 274 | °C | |
| Front Temperature | 232 - 274 | °C | |
| Mold Temperature | 32.2 - 65.6 | °C | |
| Injection Pressure | 68.9 - 138 | MPa | |

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