

RTP 287F

Polyamide 12

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 | Carbon Fiber,40% Filler by Weight | | |
| RoHS Compliance | Contact Manufacturer | | |
| Appearance | Black | | |
| | Natural Color | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.23 | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow (3.18 mm) | 0.10 | % | ASTM D955 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 17200 | MPa | ASTM D638 |
| Tensile Strength | 172 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 2.0 | % | ASTM D638 |
| Flexural Modulus | 15200 | MPa | ASTM D790 |
| Flexural Strength | 241 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (3.18 mm) | 190 | J/m | ASTM D256 |
| Unnotched Izod Impact (3.18 mm) | 1100 | J/m | ASTM D4812 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 177 | °C | ASTM D648 |
| Electrical | Nominal Value | Unit | Test Method |
| Volume Resistivity | 10 | ohms · cm | ASTM D257 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating (1.59 mm, RTP Tested) | HB | | UL 94 |
| Injection | Nominal Value | Unit | |
| Rear Temperature | 221 to 254 | °C | |
| Middle Temperature | 221 to 254 | °C | |
| Front Temperature | 221 to 254 | °C | |
| Mold Temperature | 37.8 to 65.6 | °C | |
| Injection Pressure | 68.9 to 103 | MPa | |

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Recommended distributors for this material

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