# RTP 980.7

Polysulfone

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 reinforced material, 7.0% filler by weight | | |
| Features | Good dimensional stability<br>Rigidity, high<br>Good formability<br>Good toughness<br>Self-extinguishing | | |
| RoHS Compliance | Contact manufacturer | | |
| Appearance | Black | | |
| Forms | Particle | | |
| Processing Method | Injection molding | | |
| **Physical** | **Nominal Value** | **Unit** | **Test Method** |
| Specific Gravity | 1.27 | g/cm³ | ASTM D792 |
| Molding Shrinkage - Flow (3.18 mm) | 0.30 | % | ASTM D955 |
| Water Absorption (23°C, 24 hr) | 0.23 | % | ASTM D570 |
| **Hardness** | **Nominal Value** | **Unit** | **Test Method** |
| Rockwell Hardness (R-Scale) | 122 | | ASTM D785 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Modulus | 5100 | MPa | ASTM D638 |
| Tensile Strength | 96.5 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 3.0 | % | ASTM D638 |
| Flexural Modulus | 4140 | MPa | ASTM D790 |
| Flexural Strength | 141 | MPa | ASTM D790 |
| **Impact** | **Nominal Value** | **Unit** | **Test Method** |
| Notched Izod Impact (6.35 mm) | 53 | J/m | ASTM D256 |
| Unnotched Izod Impact (6.35 mm) | 590 | J/m | ASTM D4812 |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, not annealed | 182 | °C | ASTM D648 |
| 1.8 MPa, not annealed | 177 | °C | ASTM D648 |
| **Electrical** | **Nominal Value** | **Unit** | **Test Method** |
| Volume Resistivity | 1.0E+12 | ohms·cm | ASTM D257 |

| Flammability | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Flame Rating | V-1 | | UL 94 |

| Additional Information |
|---|
| Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 5mil/in.Volume Resistivity, ASTM D-257: 1E12-1E13 ohm-cmFlammability, ASTM D-635: SE in/min. |

| Injection | Nominal Value | Unit |
|---|---|---|
| Drying Temperature | 135 | °C |
| Drying Time | 4.0 | hr |
| Suggested Max Moisture | 0.050 | % |
| Suggested Max Regrind | 20 | % |
| Rear Temperature | 288 - 343 | °C |
| Middle Temperature | 288 - 343 | °C |
| Front Temperature | 288 - 343 | °C |
| Mold Temperature | 93.3 - 149 | °C |
| Injection Pressure | 103 - 138 | MPa |



## Recommended distributors for this material

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