

RTP 1502-40D

Thermoplastic Elastomer

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.
The reinforced polyester elastomers offer many advantages over the base resin. Adding small amounts of glass, 5, 10, and 15% retains the elastomeric properties of the materials while increasing tensile strength and dimensional stability. The electrical properties are also improved.

| General Information | | | |
|---|---|-------------------|-------------|
| Filler / Reinforcement | Glass fiber reinforced material, 15% filler by weight | | |
| Features | Good dimensional stability | | |
| | High strength | | |
| RoHS Compliance | Contact manufacturer | | |
| Appearance | Black | | |
| | Natural color | | |
| Forms | Particle | | |
| Processing Method | Injection molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.26 | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow (3.18 mm) | 0.20 | % | ASTM D955 |
| Water Absorption (23°C, 24 hr) | 0.50 | % | ASTM D570 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore D) | 40 | | ASTM D2240 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 621 | MPa | ASTM D638 |
| Tensile Strength (Yield) | 19.3 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 10 | % | ASTM D638 |
| Flexural Modulus | 600 | MPa | ASTM D790 |
| Flexural Strength (Yield) | 15.9 | MPa | ASTM D790 |
| Compressive Strength | 13.8 | MPa | ASTM D695 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (3.18 mm) | 360 | J/m | ASTM D256 |
| Unnotched Izod Impact (3.18 mm) | No Break | | ASTM D4812 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 54.4 | °C | ASTM D648 |
| CLTE - Flow | 1.3E-6 | cm/cm/°C | ASTM D696 |
| Electrical | Nominal Value | Unit | Test Method |

| | | | |
|---|---------------|---------|-------------|
| Volume Resistivity | 1.0E+16 | ohms·cm | ASTM D257 |
| Dielectric Strength | 16 | kV/mm | ASTM D149 |
| Dielectric Constant (1 MHz) | 4.93 | | ASTM D150 |
| Dissipation Factor (1 MHz) | 0.041 | | ASTM D150 |
| Arc Resistance | 123 | sec | ASTM D495 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating (1.59 mm, Values per RTP Company testing.) | HB | | UL 94 |
| Additional Information | | | |
| Molding Shrinkage, Linear-Flow, ASTM D955, 6.35mm: 3mm/m. | | | |
| Injection | Nominal Value | Unit | |
| Rear Temperature | 188 - 216 | °C | |
| Middle Temperature | 188 - 216 | °C | |
| Front Temperature | 188 - 216 | °C | |
| Mold Temperature | 21.1 - 37.8 | °C | |
| Injection Pressure | 68.9 - 103 | MPa | |

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