

RTP 282B

Polyamide 610

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, 15% filler by weight | | |
| Features | Conductivity Antistatic property | | |
| RoHS Compliance | Contact manufacturer | | |
| Appearance | Black Natural color | | |
| Forms | Particle | | |
| Processing Method | Injection molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.15 | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow (3.18 mm) | 0.20 | % | ASTM D955 |
| Water Absorption (23°C, 24 hr) | 0.25 | % | ASTM D570 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 8270 | MPa | ASTM D638 |
| Tensile Strength | 138 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 3.0 | % | ASTM D638 |
| Flexural Modulus | 7580 | MPa | ASTM D790 |
| Flexural Strength | 186 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (3.18 mm) | 48 | J/m | ASTM D256 |
| Unnotched Izod Impact (3.18 mm) | 480 | J/m | ASTM D4812 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load | | | ASTM D648 |
| 0.45 MPa, not annealed | 216 | °C | ASTM D648 |
| 1.8 MPa, not annealed | 213 | °C | ASTM D648 |
| Electrical | Nominal Value | Unit | Test Method |
| Volume Resistivity | 1.0E+2 | ohms · cm | ASTM D257 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating (1.59 mm) | HB | | UL 94 |
| Additional Information | | | |

Mold Shrinkage, ASTM D955, 0.250 in: 3 mil/in Tensile Elongation, ASTM D638: 2 - 4% Volume Resistivity, ASTM D257: 1E1 - 1E3

| Injection | Nominal Value | Unit |
|--------------------|---------------|------|
| Rear Temperature | 254 - 282 | °C |
| Middle Temperature | 254 - 282 | °C |
| Front Temperature | 254 - 282 | °C |
| Mold Temperature | 60.0 - 93.3 | °C |
| Injection Pressure | 68.9 - 138 | MPa |

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Recommended distributors for this material

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