

RTP 4000 AR 30

Polyphthalamide

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 | Aramid fiber, 30% filler by weight | | |
| Features | Good wear resistance | | |
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| RoHS Compliance | Contact manufacturer | | |
| Appearance | Black | | |
| | Natural color | | |
| Forms | Particle | | |
| Processing Method | Injection molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.28 | g/cm ³ | ASTM D792 |
| Molding Shrinkage - Flow (3.18 mm) | 0.50 | % | ASTM D955 |
| Water Absorption (23°C, 24 hr) | 0.23 | % | ASTM D570 |
| Hardness | Nominal Value | Unit | Test Method |
| Rockwell Hardness (R-Scale) | 124 | | ASTM D785 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Modulus | 7580 | MPa | ASTM D638 |
| Tensile Strength | 117 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 2.4 | % | ASTM D638 |
| Flexural Modulus | 6270 | MPa | ASTM D790 |
| Flexural Strength | 179 | MPa | ASTM D790 |
| Impact | Nominal Value | Unit | Test Method |
| Notched Izod Impact (3.18 mm) | 32 | J/m | ASTM D256 |
| Unnotched Izod Impact (3.18 mm) | 430 | J/m | ASTM D4812 |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 210 | °C | ASTM D648 |
| Flammability | Nominal Value | | Test Method |
| Flame Rating | HB | | UL 94 |
| Additional Information | | | |

Mold Shrinkage, Linear-Flow, ASTM D955, 0.25in.: 7mil/in.

| Injection | Nominal Value | Unit |
|--------------------|---------------|------|
| Rear Temperature | 304 - 343 | °C |
| Middle Temperature | 304 - 343 | °C |
| Front Temperature | 304 - 343 | °C |
| Mold Temperature | 135 - 163 | °C |
| Injection Pressure | 68.9 - 103 | MPa |

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Recommended distributors for this material

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