

# RTP 1001 HI

Polybutylene Terephthalate

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             | Glass fiber reinforced material, 10% filler by weight |                   |             |
| Additive                           | Impact modifier                                       |                   |             |
| Features                           | Impact modification                                   |                   |             |
|                                    | Impact resistance, high                               |                   |             |
| RoHS Compliance                    | Contact manufacturer                                  |                   |             |
| Appearance                         | Black   |                   |             |
|                                    | Natural color   |                   |             |
| Forms                              | Particle  |                   |             |
| Processing Method                  | Injection molding                                     |                   |             |
| Physical                           | Nominal Value   | Unit              | Test Method |
| Specific Gravity                   | 1.36  | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.18 mm) | 0.90  | %                 | ASTM D955   |
| Water Absorption (23°C, 24 hr)     | 0.070   | %                 | ASTM D570   |
| Hardness                           | Nominal Value   | Unit              | Test Method |
| Rockwell Hardness (R-Scale)        | 115   |                   | ASTM D785   |
| Mechanical                         | Nominal Value   | Unit              | Test Method |
| Tensile Modulus                    | 4140  | MPa               | ASTM D638   |
| Tensile Strength                   | 67.6  | MPa               | ASTM D638   |
| Tensile Elongation (Break)         | 4.5   | %                 | ASTM D638   |
| Flexural Modulus                   | 3450  | MPa               | ASTM D790   |
| Flexural Strength                  | 110   | MPa               | ASTM D790   |
| Impact                             | Nominal Value   | Unit              | Test Method |
| Notched Izod Impact (3.18 mm)      | 160   | J/m               | ASTM D256   |
| Unnotched Izod Impact (3.18 mm)    | 850   | J/m               | ASTM D4812  |
| Thermal                            | Nominal Value   | Unit              | Test Method |
| Deflection Temperature Under Load  |   |                   | ASTM D648   |
| 0.45 MPa, not annealed             | 166   | °C                | ASTM D648   |
| 1.8 MPa, not annealed              | 154   | °C                | ASTM D648   |
| Electrical                         | Nominal Value   | Unit              | Test Method |
| Volume Resistivity                 | 1.0E+16   | ohms · cm         | ASTM D257   |

| Flammability  | Nominal Value | Unit | Test Method |
|---|---------------|------|-------------|
| Flame Rating (1.59 mm)  | HB            |      | UL 94       |
| Additional Information  |               |      |             |
| The value listed as Flammability, UL 94, was tested in accordance with RTP test standards.Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 12mil/in. |               |      |             |
| Injection   | Nominal Value | Unit |             |
| Drying Temperature  | 121           | °C   |             |
| Drying Time   | 4.0           | hr   |             |
| Suggested Max Moisture  | 0.030         | %    |             |
| Suggested Max Regrind   | 20            | %    |             |
| Rear Temperature  | 232 - 271     | °C   |             |
| Middle Temperature  | 232 - 271     | °C   |             |
| Front Temperature   | 232 - 271     | °C   |             |
| Mold Temperature  | 37.8 - 121    | °C   |             |
| Injection Pressure  | 68.9 - 103    | MPa  |             |

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#### Recommended distributors for this material

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