

# RTP 302 HF

Polycarbonate

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                                                                         | Glass fiber reinforced material, 15% filler by weight |                   |             |
| Features                                                                                       | High liquidity                                        |                   |             |
| RoHS Compliance                                                                                | Contact manufacturer                                  |                   |             |
| Appearance                                                                                     | Black                                                 |                   |             |
|                                                                                                | Natural color                                         |                   |             |
| Forms                                                                                          | Particle                                              |                   |             |
| Processing Method                                                                              | Injection molding                                     |                   |             |
| Physical                                                                                       | Nominal Value                                         | Unit              | Test Method |
| Specific Gravity                                                                               | 1.29                                                  | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.18 mm)                                                             | 0.30                                                  | %                 | ASTM D955   |
| Water Absorption (23°C, 24 hr)                                                                 | 0.10                                                  | %                 | ASTM D570   |
| Mechanical                                                                                     | Nominal Value                                         | Unit              | Test Method |
| Tensile Modulus                                                                                | 4830                                                  | MPa               | ASTM D638   |
| Tensile Strength                                                                               | 82.7                                                  | MPa               | ASTM D638   |
| Tensile Elongation (Break)                                                                     | 3.0                                                   | %                 | ASTM D638   |
| Flexural Modulus                                                                               | 4140                                                  | MPa               | ASTM D790   |
| Flexural Strength                                                                              | 131                                                   | MPa               | ASTM D790   |
| Impact                                                                                         | Nominal Value                                         | Unit              | Test Method |
| Notched Izod Impact (3.18 mm)                                                                  | 96                                                    | J/m               | ASTM D256   |
| Unnotched Izod Impact (3.18 mm)                                                                | 690                                                   | J/m               | ASTM D4812  |
| Thermal                                                                                        | Nominal Value                                         | Unit              | Test Method |
| Deflection Temperature Under Load                                                              |                                                       |                   | ASTM D648   |
| 0.45 MPa, not annealed                                                                         | 143                                                   | °C                | ASTM D648   |
| 1.8 MPa, not annealed                                                                          | 138                                                   | °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                                                                         |                                                       |                   |             |
| Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 3mil/in.Tensile Elongation, ASTM D-638: 3-4% |                                                       |                   |             |

| Injection              | Nominal Value | Unit |
|------------------------|---------------|------|
| Drying Temperature     | 121           | °C   |
| Drying Time            | 4.0           | hr   |
| Suggested Max Moisture | 0.020         | %    |
| Suggested Max Regrind  | 20            | %    |
| Rear Temperature       | 288 - 343     | °C   |
| Middle Temperature     | 288 - 343     | °C   |
| Front Temperature      | 288 - 343     | °C   |
| Mold Temperature       | 65.6 - 121    | °C   |
| Injection Pressure     | 103 - 138     | MPa  |

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#### Recommended distributors for this material

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