

# RTP 103CC UV

Polypropylene  
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, 20% filler by weight |                   |             |
| Additive                           | UV stabilizer   |                   |             |
| Features                           | Chemical coupling                                     |                   |             |
|                                    | Good UV resistance                                    |                   |             |
| RoHS Compliance                    | Contact manufacturer                                  |                   |             |
| Appearance                         | Black   |                   |             |
|                                    | Natural color   |                   |             |
| Forms                              | Particle  |                   |             |
| Physical                           | Nominal Value   | Unit              | Test Method |
| Specific Gravity                   | 1.05  | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.18 mm) | 0.40  | %                 | ASTM D955   |
| Water Absorption (23°C, 24 hr)     | 0.020   | %                 | ASTM D570   |
| Mechanical                         | Nominal Value   | Unit              | Test Method |
| Tensile Modulus                    | 4410  | MPa               | ASTM D638   |
| Tensile Strength                   | 58.6  | MPa               | ASTM D638   |
| Tensile Elongation (Break)         | 4.5   | %                 | ASTM D638   |
| Flexural Modulus                   | 3170  | MPa               | ASTM D790   |
| Flexural Strength                  | 86.2  | 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)    | 590   | J/m               | ASTM D4812  |
| Thermal                            | Nominal Value   | Unit              | Test Method |
| Deflection Temperature Under Load  |   |                   | ASTM D648   |
| 0.45 MPa, not annealed             | 152   | °C                | ASTM D648   |
| 1.8 MPa, not annealed              | 143   | °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, ASTM D955, 0.250 in: 5 mil/in

| Injection          | Nominal Value | Unit |
|--------------------|---------------|------|
| Rear Temperature   | 218 - 274     | °C   |
| Middle Temperature | 218 - 274     | °C   |
| Front Temperature  | 218 - 274     | °C   |
| Mold Temperature   | 32.2 - 65.6   | °C   |
| Injection Pressure | 68.9 - 103    | MPa  |

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#### Recommended distributors for this material

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