

# RTP 156 UV

Polypropylene Copolymer

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                |                         |                   |             |
|------------------------------------|-------------------------|-------------------|-------------|
| Additive                           | UV stabilizer           |                   |             |
|                                    | Flame retardancy        |                   |             |
| Features                           | Impact resistance, good |                   |             |
|                                    | Good UV resistance      |                   |             |
|                                    | Flame retardancy        |                   |             |
| RoHS Compliance                    | Contact manufacturer    |                   |             |
| Appearance                         | Black                   |                   |             |
|                                    | Natural color           |                   |             |
| Forms                              | Particle                |                   |             |
| Processing Method                  | Injection molding       |                   |             |
| Physical                           | Nominal Value           | Unit              | Test Method |
| Specific Gravity                   | 1.21                    | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.18 mm) | 1.5                     | %                 | ASTM D955   |
| Water Absorption (23°C, 24 hr)     | 0.030                   | %                 | ASTM D570   |
| Hardness                           | Nominal Value           | Unit              | Test Method |
| Rockwell Hardness (R-Scale)        | 90                      |                   | ASTM D785   |
| Mechanical                         | Nominal Value           | Unit              | Test Method |
| Tensile Modulus                    | 1450                    | MPa               | ASTM D638   |
| Tensile Strength                   | 17.2                    | MPa               | ASTM D638   |
| Tensile Elongation (Break)         | 10                      | %                 | ASTM D638   |
| Flexural Modulus                   | 1310                    | MPa               | ASTM D790   |
| Flexural Strength                  | 24.1                    | MPa               | ASTM D790   |
| Impact                             | Nominal Value           | Unit              | Test Method |
| Notched Izod Impact (3.18 mm)      | 210                     | J/m               | ASTM D256   |
| Unnotched Izod Impact (3.18 mm)    | 1300                    | J/m               | ASTM D4812  |
| Thermal                            | Nominal Value           | Unit              | Test Method |
| Deflection Temperature Under Load  |                         |                   | ASTM D648   |
| 0.45 MPa, not annealed             | 104                     | °C                | ASTM D648   |

| 1.8 MPa, not annealed                                       | 60.0          | °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, Values per RTP Company testing.)     | V-0           |         | UL 94       |
| Additional Information                                      |               |         |             |
| Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 20mil/in. |               |         |             |
| Injection                                                   | Nominal Value | Unit    |             |
| Drying Temperature                                          | 82.2          | °C      |             |
| Drying Time                                                 | 2.0           | hr      |             |
| Suggested Max Regrind                                       | 20            | %       |             |
| 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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