

# RTP 200 GB 10 TFE 15

Polyamide 66

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 beads, 10% filler by weight |                   |             |
| Additive                          | PTFE lubricant (15%)              |                   |             |
| Features                          | Lubrication                       |                   |             |
| RoHS Compliance                   | Contact manufacturer              |                   |             |
| Appearance                        | Black                             |                   |             |
|                                   | Natural color                     |                   |             |
| Forms                             | Particle                          |                   |             |
| Processing Method                 | Injection molding                 |                   |             |
| Physical                          | Nominal Value                     | Unit              | Test Method |
| Specific Gravity                  | 1.31                              | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow          | 1.8                               | %                 | ASTM D955   |
| Water Absorption (23°C, 24 hr)    | 0.090                             | %                 | ASTM D570   |
| Hardness                          | Nominal Value                     | Unit              | Test Method |
| Rockwell Hardness (R-Scale)       | 115                               |                   | ASTM D785   |
| Mechanical                        | Nominal Value                     | Unit              | Test Method |
| Tensile Modulus                   | 3100                              | MPa               | ASTM D638   |
| Tensile Strength                  | 62.1                              | MPa               | ASTM D638   |
| Tensile Elongation (Break)        | 4.5                               | %                 | ASTM D638   |
| Flexural Modulus                  | 2480                              | MPa               | ASTM D790   |
| Flexural Strength                 | 96.5                              | MPa               | ASTM D790   |
| Impact                            | Nominal Value                     | Unit              | Test Method |
| Notched Izod Impact               | 37                                | J/m               | ASTM D256   |
| Unnotched Izod Impact             | 370                               | J/m               | ASTM D4812  |
| Thermal                           | Nominal Value                     | Unit              | Test Method |
| Deflection Temperature Under Load |                                   |                   | ASTM D648   |
| 0.45 MPa, not annealed            | 207                               | °C                | ASTM D648   |
| 1.8 MPa, not annealed             | 185                               | °C                | ASTM D648   |
| CLTE - Flow                       | 7.2E-5                            | cm/cm/°C          | ASTM D696   |
| Thermal Conductivity              | 0.26                              | W/m/K             | ASTM C177   |
| Electrical                        | Nominal Value                     | Unit              | Test Method |
| Volume Resistivity                | 1.0E+14                           | 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.: 25mil/in. |               |      |             |
| Injection                                                                                                                                             | Nominal Value | Unit |             |
| Rear Temperature                                                                                                                                      | 274 - 288     | °C   |             |
| Middle Temperature                                                                                                                                    | 274 - 288     | °C   |             |
| Front Temperature                                                                                                                                     | 274 - 288     | °C   |             |
| Mold Temperature                                                                                                                                      | 65.6 - 107    | °C   |             |
| Injection Pressure                                                                                                                                    | 82.7 - 124    | MPa  |             |

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#### Recommended distributors for this material

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