

# RTP 206 SI 3

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.  
-Preliminary Product Data per RTP Co.-

| General Information                |                                                       |                   |             |
|------------------------------------|-------------------------------------------------------|-------------------|-------------|
| Filler / Reinforcement             | Glass fiber reinforced material, 35% filler by weight |                   |             |
| Additive                           | Silicone lubricant (3%)                               |                   |             |
| Features                           | Lubrication                                           |                   |             |
| RoHS Compliance                    | Contact manufacturer                                  |                   |             |
| Appearance                         | Black                                                 |                   |             |
|                                    | Natural color                                         |                   |             |
| Forms                              | Particle                                              |                   |             |
| Processing Method                  | Injection molding                                     |                   |             |
| Physical                           | Nominal Value                                         | Unit              | Test Method |
| Specific Gravity                   | 1.39                                                  | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.18 mm) | 0.40                                                  | %                 | ASTM D955   |
| Water Absorption (23°C, 24 hr)     | 0.70                                                  | %                 | ASTM D570   |
| Mechanical                         | Nominal Value                                         | Unit              | Test Method |
| Tensile Modulus                    | 11000                                                 | MPa               | ASTM D638   |
| Tensile Strength                   | 172                                                   | MPa               | ASTM D638   |
| Tensile Elongation (Break)         | 3.0                                                   | %                 | ASTM D638   |
| Flexural Modulus                   | 8960                                                  | MPa               | ASTM D790   |
| Flexural Strength                  | 248                                                   | MPa               | ASTM D790   |
| Impact                             | Nominal Value                                         | Unit              | Test Method |
| Notched Izod Impact (3.18 mm)      | 130                                                   | J/m               | ASTM D256   |
| Unnotched Izod Impact (3.18 mm)    | 1400                                                  | J/m               | ASTM D4812  |
| Thermal                            | Nominal Value                                         | Unit              | Test Method |
| Deflection Temperature Under Load  |                                                       |                   | ASTM D648   |
| 0.45 MPa, not annealed             | 260                                                   | °C                | ASTM D648   |
| 1.8 MPa, not annealed              | 249                                                   | °C                | ASTM D648   |
| Electrical                         | Nominal Value                                         | Unit              | Test Method |
| Volume Resistivity                 | 1.0E+14                                               | ohms · cm         | ASTM D257   |
| Flammability                       | Nominal Value                                         | Unit              | Test Method |
| Flame Rating                       | HB                                                    |                   | UL 94       |
| Additional Information             |                                                       |                   |             |

Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 6mil/in.Tensile Elongation, ASTM D-638: 3-4%

| Injection              | Nominal Value | Unit |
|------------------------|---------------|------|
| Drying Temperature     | 79.4          | °C   |
| Drying Time            | 4.0           | hr   |
| Suggested Max Moisture | 0.20          | %    |
| Suggested Max Regrind  | 20            | %    |
| 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 - 138    | MPa  |

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#### Recommended distributors for this material

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