

# RTP 300 GB 20 FR L

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 beads, 20% filler by weight |                   |             |
| Additive                           | Lubricant                         |                   |             |
|                                    | Flame retardancy                  |                   |             |
| Features                           | Lubrication                       |                   |             |
|                                    | Flame retardancy                  |                   |             |
| RoHS Compliance                    | Contact manufacturer              |                   |             |
| Appearance                         | Black                             |                   |             |
|                                    | Natural color                     |                   |             |
| Forms                              | Particle                          |                   |             |
| Processing Method                  | Injection molding                 |                   |             |
| Physical                           | Nominal Value                     | Unit              | Test Method |
| Specific Gravity                   | 1.37                              | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.18 mm) | 0.60                              | %                 | ASTM D955   |
| Water Absorption (23°C, 24 hr)     | 0.10                              | %                 | ASTM D570   |
| Hardness                           | Nominal Value                     | Unit              | Test Method |
| Rockwell Hardness (R-Scale)        | 118                               |                   | ASTM D785   |
| Mechanical                         | Nominal Value                     | Unit              | Test Method |
| Tensile Modulus                    | 2900                              | MPa               | ASTM D638   |
| Tensile Strength                   | 55.2                              | MPa               | ASTM D638   |
| Tensile Elongation (Break)         | 9.0                               | %                 | ASTM D638   |
| Flexural Modulus                   | 2960                              | MPa               | ASTM D790   |
| Flexural Strength                  | 89.6                              | MPa               | ASTM D790   |
| Impact                             | Nominal Value                     | Unit              | Test Method |
| Notched Izod Impact (3.18 mm)      | 53                                | J/m               | ASTM D256   |
| Unnotched Izod Impact (3.18 mm)    | 1200                              | J/m               | ASTM D4812  |
| Thermal                            | Nominal Value                     | Unit              | Test Method |
| Deflection Temperature Under Load  |                                   |                   | ASTM D648   |
| 0.45 MPa, not annealed             | 138                               | °C                | ASTM D648   |

|                                    |               |         |             |
|------------------------------------|---------------|---------|-------------|
| 1.8 MPa, not annealed              | 132           | °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, RTP Tested) | V-0           |         | UL 94       |

#### Additional Information

Mold Shrinkage, Linear-Flow, ASTM D-955, 0.25in.: 7mil/in.

|                        |               |      |
|------------------------|---------------|------|
| 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     | 68.9 - 103    | MPa  |

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#### Recommended distributors for this material

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