

# RTP 300 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                |                      |                   |             |
|------------------------------------|----------------------|-------------------|-------------|
| Additive                           | Lubricant            |                   |             |
| Features                           | Lubrication          |                   |             |
| RoHS Compliance                    | Contact manufacturer |                   |             |
| Appearance                         | Black                |                   |             |
|                                    | Natural color        |                   |             |
| Forms                              | Particle             |                   |             |
| Processing Method                  | Injection molding    |                   |             |
| Physical                           | Nominal Value        | Unit              | Test Method |
| Specific Gravity                   | 1.20                 | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.18 mm) | 0.60                 | %                 | ASTM D955   |
| Water Absorption (23°C, 24 hr)     | 0.15                 | %                 | ASTM D570   |
| Hardness                           | Nominal Value        | Unit              | Test Method |
| Rockwell Hardness (R-Scale)        | 118                  |                   | ASTM D785   |
| Mechanical                         | Nominal Value        | Unit              | Test Method |
| Tensile Modulus                    | 2410                 | MPa               | ASTM D638   |
| Tensile Strength                   | 65.5                 | MPa               | ASTM D638   |
| Tensile Elongation (Break)         | 100                  | %                 | ASTM D638   |
| Flexural Modulus                   | 2340                 | MPa               | ASTM D790   |
| Flexural Strength                  | 93.1                 | MPa               | ASTM D790   |
| Impact                             | Nominal Value        | Unit              | Test Method |
| Notched Izod Impact (3.18 mm)      | 800                  | J/m               | ASTM D256   |
| Unnotched Izod Impact (3.18 mm)    | No Break             |                   | 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) | HB                   |                   | 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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