

# RTP 2183 LF

Polyether Imide

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                                  | Carbon Fiber,20% Filler by Weight |                   |             |
| Features  | Low Flow                          |                   |             |
| RoHS Compliance   | Contact Manufacturer              |                   |             |
| Appearance  | Black                             |                   |             |
|   | Natural Color                     |                   |             |
| Forms   | Pellets                           |                   |             |
| Processing Method                                       | Injection Molding                 |                   |             |
| Physical  | Nominal Value                     | Unit              | Test Method |
| Specific Gravity  | 1.35                              | g/cm <sup>3</sup> | ASTM D792   |
| Molding Shrinkage - Flow (3.18 mm)                      | 0.15                              | %                 | ASTM D955   |
| Mechanical  | Nominal Value                     | Unit              | Test Method |
| Tensile Modulus   | 13800                             | MPa               | ASTM D638   |
| Tensile Strength  | 172                               | MPa               | ASTM D638   |
| Tensile Elongation (Break)                              | 1.5                               | %                 | ASTM D638   |
| Flexural Modulus  | 11700                             | MPa               | ASTM D790   |
| Flexural Strength                                       | 248                               | 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)                         | 430                               | J/m               | ASTM D4812  |
| Thermal   | Nominal Value                     | Unit              | Test Method |
| Deflection Temperature Under Load (1.8 MPa, Unannealed) | 204                               | °C                | ASTM D648   |
| Electrical  | Nominal Value                     | Unit              | Test Method |
| Volume Resistivity                                      | 1.0E+2                            | ohms · cm         | ASTM D257   |
| Flammability  | Nominal Value                     | Unit              | Test Method |
| Flame Rating (1.59 mm, RTP Tested)                      | V-0                               |                   | UL 94       |
| Injection   | Nominal Value                     | Unit              |             |
| Drying Temperature                                      | 149                               | °C                |             |
| Drying Time   | 4.0                               | hr                |             |
| Suggested Max Moisture                                  | 0.020                             | %                 |             |

|                       |                |                    |
|-----------------------|----------------|--------------------|
| Suggested Max Regrind | 20             | %                  |
| Rear Temperature      | 343 to 399     | °C                 |
| Middle Temperature    | 343 to 399     | °C                 |
| Front Temperature     | 343 to 399     | °C                 |
| Mold Temperature      | 93.3 to 177    | °C                 |
| Injection Pressure    | 82.7 to 124    | MPa                |
| Back Pressure         | 0.345 to 0.517 | MPa                |
| Clamp Tonnage         | 6.9 to 11      | kN/cm <sup>2</sup> |

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