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**Product Data Sheet &  
General Processing Conditions**

**RTP 2201 LF  
Polyetheretherketone (PEEK)  
Glass Fiber  
Low Flow**

**PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS**

| <b>PERMANENCE</b>                            | <b>English</b> | <b>SI Metric</b> | <b>ASTM<br/>TEST</b> |
|----------------------------------------------|----------------|------------------|----------------------|
| Primary Additive                             | 10 %           | 10 %             |                      |
| Specific Gravity                             | 1.37           | 1.37             | D 792                |
| Molding Shrinkage<br>1/8 in (3.2 mm) section | 0.0060 in/in   | 0.60 %           | D 955                |

**MECHANICAL**

|                                                          |                            |          |        |
|----------------------------------------------------------|----------------------------|----------|--------|
| Impact Strength, Izod<br>notched 1/8 in (3.2 mm) section | 1.3 ft-lbs/in              | 69 J/m   | D 256  |
| unnotched 1/8 in (3.2 mm) section                        | 16.0 ft-lbs/in             | 854 J/m  | D 4812 |
| Tensile Strength                                         | 18000 psi                  | 124 MPa  | D 638  |
| Tensile Elongation                                       | 5.0 %                      | 5.0 %    | D 638  |
| Tensile Modulus                                          | 0.90 x 10 <sup>6</sup> psi | 6206 MPa | D 638  |
| Flexural Strength                                        | 28000 psi                  | 193 MPa  | D 790  |
| Flexural Modulus                                         | 0.80 x 10 <sup>6</sup> psi | 5516 MPa | D 790  |

**THERMAL**

|                                        |               |              |        |
|----------------------------------------|---------------|--------------|--------|
| Ignition Resistance*<br>Flammability** | V-0 @ 1/16 in | V-0 @ 1.5 mm | D 3801 |
|----------------------------------------|---------------|--------------|--------|

**PROPERTY NOTES**

Data herein is typical and not to be construed as specifications.

Unless otherwise specified, all data listed is for natural or black colored materials. Pigments can affect properties.

\* This rating is not intended to reflect hazards of this or any other material under actual fire conditions.

\*\* Values per RTP Company testing.

**GENERAL PROCESSING FOR INJECTION MOLDING**

|                    | <b>English</b>    | <b>SI Metric</b> |
|--------------------|-------------------|------------------|
| Injection Pressure | 12000 - 18000 psi | 83 - 124 MPa     |
| Melt Temperature   | 660 - 750 °F      | 349 - 399 °C     |
| Mold Temperature   | 325 - 425 °F      | 163 - 218 °C     |
| Drying             | 3 hrs @ 300 °F    | 3 hrs @ 149 °C   |
| Moisture Content   | 0.10 %            | 0.10 %           |
| Dew Point          | -20 °F            | -29 °C           |

**PROCESSING NOTES**

Desiccant Type Dryer Required.