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**Product Data Sheet &  
General Processing Conditions**

**RTP 1381 C TFE 15  
Polyphenylene Sulfide (PPS)  
Carbon Fiber Reinforced  
PTFE Lubricated**

**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                             | 1.45           | 1.45             | D 792                |
| Molding Shrinkage<br>1/8 in (3.2 mm) section | 0.0020 in/in   | 0.20 %           | D 955                |

**MECHANICAL**

|                                                          |                            |             |        |
|----------------------------------------------------------|----------------------------|-------------|--------|
| Impact Strength, Izod<br>notched 1/8 in (3.2 mm) section | 0.8 ft-lbs/in              | 43 J/m      | D 256  |
| unnotched 1/8 in (3.2 mm) section                        | 6.0 ft-lbs/in              | 320 J/m     | D 4812 |
| Tensile Strength                                         | 18000 psi                  | 124 MPa     | D 638  |
| Tensile Elongation                                       | 1.0 - 2.0 %                | 1.0 - 2.0 % | D 638  |
| Tensile Modulus                                          | 1.80 x 10 <sup>6</sup> psi | 12411 MPa   | D 638  |
| Flexural Strength                                        | 25000 psi                  | 172 MPa     | D 790  |
| Flexural Modulus                                         | 1.50 x 10 <sup>6</sup> psi | 10342 MPa   | D 790  |

**ELECTRICAL**

|                    |              |              |       |
|--------------------|--------------|--------------|-------|
| Volume Resistivity | < 1E3 ohm.cm | < 1E3 ohm.cm | D 257 |
|--------------------|--------------|--------------|-------|

**THERMAL**

|                                                |               |              |        |
|------------------------------------------------|---------------|--------------|--------|
| Deflection Temperature<br>@ 264 psi (1820 kPa) | 500 °F        | 260 °C       | D 648  |
| Ignition Resistance*                           |               |              |        |
| 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   | 575 - 650 °F      | 302 - 343 °C     |
| Mold Temperature   | 275 - 350 °F      | 135 - 177 °C     |
| Drying             | 4 hrs @ 250 °F    | 4 hrs @ 121 °C   |