



**Product Data Sheet &  
General Processing Conditions**

**RTP 1399 X 115071 E  
Polyphenylene Sulfide (PPS)  
Glass Fiber  
Carbon Nanotube  
Electrically Conductive**

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

| <b>PERMANENCE</b>                            | <b>English</b>        | <b>SI Metric</b> | <b>ASTM TEST</b> |
|--|-----------------------|------------------|------------------|
| Primary Additive                             | 30 %                  | 30 %             |                  |
| Specific Gravity                             | 1.60                  | 1.60             | D 792            |
| Molding Shrinkage<br>1/8 in (3.2 mm) section | 0.0020 - 0.0030 in/in | 0.20 - 0.30 %    | D 955            |

**MECHANICAL**

|  |                            |           |        |
|--|----------------------------|-----------|--------|
| Impact Strength, Izod<br>unnotched 1/8 in (3.2 mm) section | 5.0 ft-lbs/in              | 267 J/m   | D 4812 |
| Tensile Strength   | 17000 psi                  | 117 MPa   | D 638  |
| Tensile Elongation   | 0.8 %                      | 0.8 %     | D 638  |
| Tensile Modulus  | 2.00 x 10 <sup>6</sup> psi | 13790 MPa | D 638  |
| Flexural Strength  | 27000 psi                  | 186 MPa   | D 790  |
| Flexural Modulus   | 1.80 x 10 <sup>6</sup> psi | 12411 MPa | D 790  |

**ELECTRICAL**

|                     |                  |                  |                    |
|---------------------|------------------|------------------|--------------------|
| Volume Resistivity  | < 1E1 ohm.cm     | < 1E1 ohm.cm     | D 257              |
| Surface Resistivity | 1E3 - 1E4 ohm/sq | 1E3 - 1E4 ohm/sq | D 257              |
| Surface Resistance  | 1E2 - 1E3 ohm    | 1E2 - 1E3 ohm    | ESD STM11.11       |
| Static Decay        | < 2.00 s         | < 2.00 s         | FTMS101C<br>4046.1 |

**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.

**GENERAL PROCESSING FOR INJECTION MOLDING**

|                    | <b>English</b>    | <b>SI Metric</b> |
|--------------------|-------------------|------------------|
| Injection Pressure | 10000 - 15000 psi | 69 - 103 MPa     |
| Melt Temperature   | 585 - 625 °F      | 307 - 329 °C     |
| Mold Temperature   | 275 - 350 °F      | 135 - 177 °C     |
| Drying             | 6 hrs @ 300 °F    | 6 hrs @ 149 °C   |
| Moisture Content   | 0.04 %            | 0.04 %           |