



**Product Data Sheet &  
General Processing Conditions**

**RTP 1307 D  
Polyphenylene Sulfide (PPS)  
Glass Fiber**



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

<b>PERMANENCE</b>	<b>English</b>	<b>SI Metric</b>	<b>ASTM TEST</b>
Primary Additive	40 %	40 %	
Specific Gravity	1.68	1.68	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0010 - 0.0020 in/in	0.10 - 0.20 %	D 955

**MECHANICAL**

Impact Strength, Izod notched 1/8 in (3.2 mm) section	1.5 ft-lbs/in	80 J/m	D 256
unnotched 1/8 in (3.2 mm) section	10.0 ft-lbs/in	534 J/m	D 4812
Tensile Strength	25000 psi	172 MPa	D 638
Tensile Elongation	1.5 %	1.5 %	D 638
Tensile Modulus	2.30 x 10 <sup>6</sup> psi	15858 MPa	D 638
Flexural Strength	34000 psi	234 MPa	D 790
Flexural Modulus	2.20 x 10 <sup>6</sup> psi	15169 MPa	D 790

**ELECTRICAL**

Dielectric Strength, S/T, in oil	350 VPM	13.8 kV/mm	D 149
Dielectric Constant, 1 MHz, Dry	3.8	3.8	D 150
Dissipation Factor, 1 MHz, Dry	0.0020	0.0020	D 150
Arc Resistance	120 s	120 s	D 495
Volume Resistivity	< 1E16 ohm.cm	< 1E16 ohm.cm	D 257

**THERMAL**

Deflection Temperature @ 264 psi (1820 kPa)	510 °F	266 °C	D 648
Ignition Resistance* Flammability	V-0 @ 1/32 in	V-0 @ 0.8 mm	UL94
Coefficient of Linear Thermal Expansion Flow Direction	0.9 x 10 <sup>-5</sup> /°F	1.6 x 10 <sup>-5</sup> /°C	E 831
Transverse Direction	2.6 x 10 <sup>-5</sup> /°F	4.7 x 10 <sup>-5</sup> /°C	E 831

**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.

**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 %