




**Product Data Sheet &  
General Processing Conditions**

**RTP 1301  
Polyphenylene Sulfide (PPS)  
Glass Fiber  
UL94 V-0**



This series of compounds offer outstanding strengths combined with good heat and chemical resistance which may successfully be maintained in low load applications operating up to 500F. These ignition resistant materials exhibit excellent strength and chemical resistance.

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

<b>PERMANENCE</b>	<b>English</b>	<b>SI Metric</b>	<b>ASTM TEST</b>
Primary Additive	10 %	10 %	
Specific Gravity	1.42	1.42	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0030 - 0.0050 in/in	0.30 - 0.50 %	D 955
Water Absorption, 24 hrs @ 23°C	0.020 %	0.020 %	D 570

**MECHANICAL**

Impact Strength, Izod notched 1/8 in (3.2 mm) section	1.0 ft-lbs/in	53 J/m	D 256
unnotched 1/8 in (3.2 mm) section	2.5 ft-lbs/in	133 J/m	D 4812
Tensile Strength	10000 psi	69 MPa	D 638
Tensile Elongation	1.0 %	1.0 %	D 638
Tensile Modulus	1.00 x 10 <sup>6</sup> psi	6895 MPa	D 638
Flexural Strength	13000 psi	90 MPa	D 790
Flexural Modulus	1.00 x 10 <sup>6</sup> psi	6895 MPa	D 790

**ELECTRICAL**

Volume Resistivity	> 1E16 ohm.cm	> 1E16 ohm.cm	D 257
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**THERMAL**

Ignition Resistance* Flammability	V-0 @ 1/32 in	V-0 @ 0.8 mm	UL94
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**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 %