




**Product Data Sheet &  
General Processing Conditions**

**RTP 1305  
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	30 %	30 %	
Specific Gravity	1.58	1.58	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0010 - 0.0030 in/in	0.10 - 0.30 %	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	1.7 ft-lbs/in	91 J/m	D 256
unnotched 1/8 in (3.2 mm) section	8.0 ft-lbs/in	427 J/m	D 4812
Tensile Strength	22000 psi	152 MPa	D 638
Tensile Elongation	1.0 - 2.0 %	1.0 - 2.0 %	D 638
Tensile Modulus	1.90 x 10 <sup>6</sup> psi	13100 MPa	D 638
Flexural Strength	29000 psi	200 MPa	D 790
Flexural Modulus	1.80 x 10 <sup>6</sup> psi	12411 MPa	D 790
Hardness Rockwell, R	122	122	D 785

**ELECTRICAL**

Dielectric Strength, S/T, in oil	350 VPM	13.8 kV/mm	D 149
Dielectric Constant, 1 MHz, Dry	3.5	3.5	D 150
Dissipation Factor, 1 MHz, Dry	0.0010	0.0010	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

**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  
Moisture Content

6 hrs @ 300 °F  
0.04 %

6 hrs @ 149 °C  
0.04 %

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