



**Product Data Sheet &  
General Processing Conditions**

**RTP 902  
Polysulfone (PSU)  
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	15 %	15 %	
Specific Gravity	1.34	1.34	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0030 in/in	0.30 %	D 955
<b>MECHANICAL</b>			
Impact Strength, Izod notched 1/8 in (3.2 mm) section	1.3 ft-lbs/in	69 J/m	D 256
unnotched 1/8 in (3.2 mm) section	9.0 ft-lbs/in	481 J/m	D 4812
Tensile Strength	13000 psi	90 MPa	D 638
Tensile Elongation	3.5 %	3.5 %	D 638
Tensile Modulus	0.80 x 10 <sup>6</sup> psi	5516 MPa	D 638
Flexural Strength	19000 psi	131 MPa	D 790
Flexural Modulus	0.70 x 10 <sup>6</sup> psi	4826 MPa	D 790
Hardness Rockwell, R	122	122	D 785
<b>ELECTRICAL</b>			
Volume Resistivity	> 1E12 ohm.cm	> 1E12 ohm.cm	D 257
<b>THERMAL</b>			
Deflection Temperature @ 264 psi (1820 kPa)	355 °F	179 °C	D 648
@ 66 psi (455 kPa)	360 °F	182 °C	D 648
Ignition Resistance* Flammability**	V-1 @ 1/16 in	V-1 @ 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	10000 - 18000 psi	69 - 124 MPa
Melt Temperature	630 - 700 °F	332 - 371 °C
Mold Temperature	200 - 300 °F	93 - 149 °C
Drying	4 hrs @ 275 °F	4 hrs @ 135 °C
Moisture Content	0.15 %	0.15 %
Dew Point	-25 °F	-32 °C