



**Product Data Sheet &  
General Processing Conditions**

**RTP 906  
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	35 %	35 %	
Specific Gravity	1.51	1.51	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0010 in/in	0.10 %	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	8.5 ft-lbs/in	454 J/m	D 4812
Tensile Strength	17500 psi	121 MPa	D 638
Tensile Elongation	2.2 %	2.2 %	D 638
Tensile Modulus	1.50 x 10 <sup>6</sup> psi	10342 MPa	D 638
Flexural Strength	24000 psi	165 MPa	D 790
Flexural Modulus	1.25 x 10 <sup>6</sup> psi	8619 MPa	D 790

**ELECTRICAL**

Volume Resistivity	> 1E12 ohm.cm	> 1E12 ohm.cm	D 257
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**THERMAL**

Deflection Temperature @ 264 psi (1820 kPa)	360 °F	182 °C	D 648
@ 66 psi (455 kPa)	370 °F	188 °C	D 648
Ignition Resistance* Flammability**	V-0 @ 1/16 in	V-0 @ 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