



**Product Data Sheet &
General Processing Conditions**

**RTP 901
Polysulfone (PSU)
Glass Fiber**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Primary Additive	10 %	10 %	
Specific Gravity	1.30	1.30	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0050 in/in	0.50 %	D 955
MECHANICAL			
Impact Strength, Izod notched 1/8 in (3.2 mm) section	1.2 ft-lbs/in	64 J/m	D 256
unnotched 1/8 in (3.2 mm) section	13.0 ft-lbs/in	694 J/m	D 4812
Tensile Strength	12000 psi	83 MPa	D 638
Tensile Elongation	5.0 %	5.0 %	D 638
Tensile Modulus	0.50 x 10 ⁶ psi	3448 MPa	D 638
Flexural Strength	19000 psi	131 MPa	D 790
Flexural Modulus	0.50 x 10 ⁶ psi	3448 MPa	D 790
Hardness Rockwell, R	122	122	D 785
ELECTRICAL			
Dielectric Strength, S/T, in oil	430 VPM	16.9 kV/mm	D 149
Dielectric Constant, 1 MHz, Dry	3.5	3.5	D 150
Dissipation Factor, 1 MHz, Dry	0.0050	0.0050	D 150
Arc Resistance	100 s	100 s	D 495
Volume Resistivity	> 1E12 ohm.cm	> 1E12 ohm.cm	D 257
THERMAL			
Deflection Temperature @ 264 psi (1820 kPa)	350 °F	177 °C	D 648
@ 66 psi (455 kPa)	360 °F	182 °C	D 648
Ignition Resistance* Flammability**	VTM-2 @ 1/16 in	VTM-2 @ 1.5 mm	D 4804
Coefficient of Linear Thermal Expansion Flow Direction	2.1 x 10 ⁻⁵ /°F	3.8 x 10 ⁻⁵ /°C	E 831
Thermal Conductivity Through-plane	1.90 (BTU.in)/(hr.ft ² .°F)	0.27 W/(m.K)	E 1530
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			
	English	SI Metric	
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	