



**Product Data Sheet &  
General Processing Conditions**

**RTP 900 MG 10  
Polysulfone (PSU)  
Milled Glass**

**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	1.32	1.32	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	1.5 ft-lbs/in	80 J/m	D 256
unnotched 1/8 in (3.2 mm) section	15.0 ft-lbs/in	801 J/m	D 4812
Tensile Strength	11000 psi	76 MPa	D 638
Tensile Elongation	5.0 %	5.0 %	D 638
Tensile Modulus	0.50 x 10 <sup>6</sup> psi	3448 MPa	D 638
Flexural Strength	16000 psi	110 MPa	D 790
Flexural Modulus	0.50 x 10 <sup>6</sup> psi	3448 MPa	D 790
Compressive Strength	14500 psi	100 MPa	D 695
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**	HB @ 1/16 in	HB @ 1.5 mm	D 635
Coefficient of Linear Thermal Expansion Flow Direction	2.1 x 10 <sup>-5</sup> /°F	3.8 x 10 <sup>-5</sup> /°C	E 831
Thermal Conductivity Through-plane	1.90 (BTU.in)/(hr.ft <sup>2</sup> .°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**

	<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  
Dew Point

0.15 %  
-25 °F

0.15 %  
-32 °C

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