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Product Data Sheet & General Processing Conditions

RTP 900 MG 10 Polysulfone (PSU) Milled Glass

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
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 ⁶ psi	3448 MPa	D 638
Flexural Strength	16000 psi	110 MPa	D 790
Flexural Modulus	0.50 x 10 ⁶ 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 ⁻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
Dew Point

0.15 %
-25 °F

0.15 %
-32 °C
