



**Product Data Sheet &  
General Processing Conditions**

**RTP 1499 X 85370  
Polyphenylenesulfone (PPSU)  
PTFE Lubricated**

**PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS**

<b>PERMANENCE</b>	<b>English</b>	<b>SI Metric</b>	<b>ASTM TEST</b>
Specific Gravity	1.37	1.37	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0070 - 0.0090 in/in	0.70 - 0.90 %	D 955

**MECHANICAL**

Impact Strength, Izod notched 1/8 in (3.2 mm) section	3.5 ft-lbs/in	187 J/m	D 256
unnotched 1/8 in (3.2 mm) section	40.0 ft-lbs/in	2136 J/m	D 4812
Tensile Strength	8500 psi	59 MPa	D 638
Tensile Elongation	> 10.0 %	> 10.0 %	D 638
Tensile Modulus	0.29 x 10 <sup>6</sup> psi	2000 MPa	D 638
Flexural Strength	11000 psi	76 MPa	D 790
Flexural Modulus	0.31 x 10 <sup>6</sup> psi	2137 MPa	D 790

**ELECTRICAL**

Volume Resistivity	> 1E14 ohm.cm	> 1E14 ohm.cm	D 257
Surface Resistivity	> 1E14 ohm/sq	> 1E14 ohm/sq	D 257 ESD STM11.11

**THERMAL**

Ignition Resistance* Flammability**	V-0 @ 1/16 in	V-0 @ 1.5 mm	D 3801
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**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	650 - 750 °F	343 - 399 °C
Mold Temperature	200 - 350 °F	93 - 177 °C
Drying	6 hrs @ 300 °F	6 hrs @ 149 °C
Dew Point	-25 °F	-32 °C