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**Product Data Sheet &
General Processing Conditions**

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

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
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 ⁶ psi	2000 MPa	D 638
Flexural Strength	11000 psi	76 MPa	D 790
Flexural Modulus	0.31 x 10 ⁶ 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

	English	SI Metric
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