



(+) 18816996168
Poncioplastics.com

**Product Data Sheet &
General Processing Conditions**

RTP 1499 P X 125383 A
Polyphenyl Sulfone (PPSU)
Carbon Fiber


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	0.0005 - 0.0025 in/in	0.05 - 0.25 %	D 955

MECHANICAL

Impact Strength, Izod notched 1/8 in (3.2 mm) section	1.2 ft-lbs/in	67 J/m	D 256
unnotched 1/8 in (3.2 mm) section	12.0 ft-lbs/in	641 J/m	D 4812
Tensile Strength	17000 psi	117 MPa	D 638
Tensile Elongation	3.5 %	3.5 %	D 638
Tensile Modulus	1.00 x 10 ⁶ psi	6895 MPa	D 638
Flexural Strength	28000 psi	193 MPa	D 790
Flexural Modulus	0.90 x 10 ⁶ psi	6206 MPa	D 790

THERMAL

Ignition Resistance* Flammability	V-0 @ 1/32 in	V-0 @ 0.8 mm	UL94
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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.

GENERAL PROCESSING FOR INJECTION MOLDING

	English	SI Metric
Injection Pressure	10000 - 15000 psi	69 - 103 MPa
Melt Temperature	650 - 710 °F	343 - 377 °C
Mold Temperature	275 - 350 °F	135 - 177 °C
Drying	6 hrs @ 300 °F	6 hrs @ 149 °C
Moisture Content	0.04 %	0.04 %
Dew Point	-25 °F	-32 °C