Product Data Sheet &
General Processing Conditions

RTP 1399 X 137162 E
Polyphenylene Sulfide (PPS)
Thermally Conductive
Electrically Conductive

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity	1.71	1.71	D 792
MECHANICAL			
Impact Strength, Izod			
notched 1/8 in (3.2 mm) section	0.8 ft-lbs/in	40 J/m	D 256
unnotched 1/8 in (3.2 mm) section	2.5 ft-lbs/in	133 J/m	D 4812
Tensile Strength	12500 psi	86 MPa	D 638
Tensile Elongation	1.0 %	1.0 %	D 638
Tensile Modulus	2.40 x 10^6 psi	16548 MPa	D 638
Flexural Strength	19000 psi	131 MPa	D 790
Flexural Modulus	2.40 x 10^6 psi	16548 MPa	D 790
ELECTRICAL			
Volume Resistivity	< 1E4 ohm.cm	< 1E4 ohm.cm	D 257
Surface Resistivity	< 1E6 ohm/sq	< 1E6 ohm/sq	D 257
THERMAL			
Ignition Resistance*			
Flammability	V-0 @ 1/16 in	V-0 @ 1.5 mm	UL94
Thermal Conductivity			
Through-plane	8.33 (BTU.in)/(hr.ft².°F)	1.20 W/(m.K)	E 1530
In-plane	34.72 (BTU.in)/(hr.ft².°F)	5.00 W/(m.K)	E 1461-92

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	585 - 625 °F	307 - 329 °C
Mold Temperature	275 - 350 °F	135 - 177 °C
Drying	6 hrs @ 300 °F	6 hrs @ 149 °C
Moisture Content	0.04 %	0.04 %