



**Product Data Sheet &
General Processing Conditions**

**RTP 2299 X 115088 G
Polyetheretherketone (PEEK)
Glass Fiber
Carbon Nanotube
ESD Protection**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Primary Additive	35 %	35 %	
Specific Gravity	1.59	1.59	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0020 - 0.0030 in/in	0.20 - 0.30 %	D 955

MECHANICAL

Impact Strength, Izod unnotched 1/8 in (3.2 mm) section	16.0 ft-lbs/in	854 J/m	D 4812
Tensile Strength	27000 psi	186 MPa	D 638
Tensile Elongation	2.5 %	2.5 %	D 638
Tensile Modulus	1.86 x 10 ⁶ psi	12825 MPa	D 638
Flexural Strength	44000 psi	303 MPa	D 790
Flexural Modulus	1.86 x 10 ⁶ psi	12825 MPa	D 790

ELECTRICAL

Volume Resistivity	1E1 - 1E3 ohm.cm	1E1 - 1E3 ohm.cm	D 257
Surface Resistivity	1E5 - 1E7 ohm/sq	1E5 - 1E7 ohm/sq	D 257
Surface Resistance	1E4 - 1E6 ohm	1E4 - 1E6 ohm	ESD STM11.11
Static Decay	< 2.00 s	< 2.00 s	FTMS101C 4046.1

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.

GENERAL PROCESSING FOR INJECTION MOLDING

	English	SI Metric
Injection Pressure	12000 - 18000 psi	83 - 124 MPa
Melt Temperature	660 - 750 °F	349 - 399 °C
Mold Temperature	325 - 425 °F	163 - 218 °C
Drying	3 hrs @ 300 °F	3 hrs @ 149 °C
Moisture Content	0.10 %	0.10 %
Dew Point	-20 °F	-29 °C

PROCESSING NOTES

Desiccant Type Dryer Required.