



**Product Data Sheet &
General Processing Conditions**

**RTP 2299 X 115088 F
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	1.58	1.58	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 notched 1/8 in (3.2 mm) section	1.5 ft-lbs/in	80 J/m	D 256
unnotched 1/8 in (3.2 mm) section	17.0 ft-lbs/in	908 J/m	D 4812
Tensile Strength	27500 psi	190 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	43000 psi	296 MPa	D 790
Flexural Modulus	1.86 x 10 ⁶ psi	12825 MPa	D 790

ELECTRICAL

Volume Resistivity	1E3 - 1E5 ohm.cm	1E3 - 1E5 ohm.cm	D 257
Surface Resistivity	1E7 - 1E10 ohm/sq	1E7 - 1E10 ohm/sq	D 257
Surface Resistance	1E6 - 1E9 ohm	1E6 - 1E9 ohm	ESD STM11.11

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.