



Product Data Sheet & General Processing Conditions

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

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Primary Additive	25 %	25 %	
Specific Gravity	1.49	1.49	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0030 - 0.0040 in/in	0.30 - 0.40 %	D 955

MECHANICAL

Impact Strength, Izod notched 1/8 in (3.2 mm) section	1.2 ft-lbs/in	64 J/m	D 256
unnotched 1/8 in (3.2 mm) section	13.0 ft-lbs/in	694 J/m	D 4812
Tensile Strength	25000 psi	172 MPa	D 638
Tensile Elongation	3.0 %	3.0 %	D 638
Tensile Modulus	1.55 x 10 ⁶ psi	10687 MPa	D 638
Flexural Strength	41000 psi	283 MPa	D 790
Flexural Modulus	1.40 x 10 ⁶ psi	9653 MPa	D 790

ELECTRICAL

Volume Resistivity	1E2 - 1E3 ohm.cm	1E2 - 1E3 ohm.cm	D 257
Surface Resistivity	1E6 - 1E8 ohm/sq	1E6 - 1E8 ohm/sq	D 257
Surface Resistance	1E5 - 1E7 ohm	1E5 - 1E7 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.