



**Product Data Sheet &
General Processing Conditions**

**RTP 2199 X 115079 C
Polyetherimide (PEI)
Carbon Nanotube
ESD Protection
Electrically Conductive**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity	1.30	1.30	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0050 - 0.0070 in/in	0.50 - 0.70 %	D 955
MECHANICAL			
Tensile Strength	13800 psi	95 MPa	D 638
Tensile Elongation	2.5 %	2.5 %	D 638
Tensile Modulus	0.60 x 10 ⁶ psi	4137 MPa	D 638
Flexural Strength	25400 psi	175 MPa	D 790
Flexural Modulus	0.60 x 10 ⁶ psi	4137 MPa	D 790
ELECTRICAL			
Volume Resistivity	1E1 - 1E2 ohm.cm	1E1 - 1E2 ohm.cm	D 257
Surface Resistivity	1E4 - 1E6 ohm/sq	1E4 - 1E6 ohm/sq	D 257
Surface Resistance	1E3 - 1E5 ohm	1E3 - 1E5 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	670 - 750 °F	354 - 399 °C
Mold Temperature	275 - 350 °F	135 - 177 °C
Drying	4 hrs @ 300 °F	4 hrs @ 149 °C
Moisture Content	0.04 %	0.04 %
Dew Point	-20 °F	-29 °C

PROCESSING NOTES

Desiccant Type Dryer Required.