



**Product Data Sheet &
General Processing Conditions**

**RTP 1099 X 115081 C
Polybutylene Terephthalate (PBT)
Carbon Nanotube
ESD Protection**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity	1.33	1.33	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	12.0 ft-lbs/in	641 J/m	D 4812
Tensile Strength	8700 psi	60 MPa	D 638
Tensile Elongation	7.0 %	7.0 %	D 638
Tensile Modulus	0.50 x 10 ⁶ psi	3448 MPa	D 638
Flexural Strength	14500 psi	100 MPa	D 790
Flexural Modulus	0.45 x 10 ⁶ psi	3103 MPa	D 790
ELECTRICAL			
Volume Resistivity	1E2 - 1E4 ohm.cm	1E2 - 1E4 ohm.cm	D 257
Surface Resistivity	1E8 - 1E10 ohm/sq	1E8 - 1E10 ohm/sq	D 257
Surface Resistance	1E7 - 1E9 ohm	1E7 - 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	10000 - 15000 psi	69 - 103 MPa
Melt Temperature	460 - 520 °F	238 - 271 °C
Mold Temperature	175 - 225 °F	79 - 107 °C
Drying	4 hrs @ 250 °F	4 hrs @ 121 °C
Moisture Content	0.03 %	0.03 %
Dew Point	-20 °F	-29 °C

PROCESSING NOTES

Desiccant Type Dryer Required.