Product Data Sheet &
General Processing Conditions

RTP 399 X 115069 D
Polycarbonate (PC)
Carbon Nanotube
Electrically Conductive
ESD Protection

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity	1.23	1.23	D 792
Molding Shrinkage			
1/8 in (3.2 mm) section	0.0060 - 0.0080 in/in	0.60 - 0.80 %	D 955
MECHANICAL			
Tensile Strength	7800 psi	54 MPa	D 638
Tensile Elongation	> 8.0 %	> 8.0 %	D 638
Tensile Modulus	0.30 x 10^6 psi	2068 MPa	D 638
Flexural Strength	13000 psi	90 MPa	D 790
Flexural Modulus	0.35 x 10^6 psi	2413 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			
MIL-PRF-81705D, 5kV to 50 V, 12% RH	< 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	10000 - 15000 psi	69 - 103 MPa
Melt Temperature	550 - 600 °F	288 - 316 °C
Mold Temperature	180 - 250 °F	82 - 121 °C
Drying	4 hrs @ 250 °F	4 hrs @ 121 °C
Moisture Content	0.02 %	0.02 %
Dew Point	-20 °F	-29 °C

PROCESSING NOTES

Desiccant Type Dryer Required.