



**Product Data Sheet &  
General Processing Conditions**

**RTP 399 X 115084 C  
Polycarbonate (PC)  
Carbon Nanotube  
Static Dissipative  
ESD Protection  
High Purity**

**PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS**

<b>PERMANENCE</b>	<b>English</b>	<b>SI Metric</b>	<b>ASTM TEST</b>
Specific Gravity	1.22	1.22	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0050 - 0.0070 in/in	0.50 - 0.70 %	D 955

**MECHANICAL**

Impact Strength, Izod notched 1/8 in (3.2 mm) section	1.2 ft-lbs/in	64 J/m	D 256
Tensile Strength	9500 psi	66 MPa	D 638
Tensile Elongation	7.0 %	7.0 %	D 638
Tensile Modulus	0.38 x 10 <sup>6</sup> psi	2620 MPa	D 638
Flexural Strength	15000 psi	103 MPa	D 790
Flexural Modulus	0.41 x 10 <sup>6</sup> psi	2827 MPa	D 790

**ELECTRICAL**

Volume Resistivity	1E2 - 1E4 ohm.cm	1E2 - 1E4 ohm.cm	D 257
Surface Resistivity	1E6 - 1E9 ohm/sq	1E6 - 1E9 ohm/sq	D 257
Surface Resistance	1E5 - 1E8 ohm	1E5 - 1E8 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**

	<b>English</b>	<b>SI Metric</b>
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.