



**Product Data Sheet &  
General Processing Conditions**

**RTP 383 FR A  
Polycarbonate (PC)  
Carbon Fiber  
Flame Retardant  
RoHS Compliant**

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

<b>PERMANENCE</b>	<b>English</b>	<b>SI Metric</b>	<b>ASTM TEST</b>
Primary Additive	20 %	20 %	
Specific Gravity	1.30	1.30	D 792
Molding Shrinkage			
1/8 in (3.2 mm) section	0.0003 - 0.0015 in/in	0.03 - 0.15 %	D 955
Water Absorption, 24 hrs @ 23°C	0.100 %	0.100 %	D 570
<b>MECHANICAL</b>			
Impact Strength, Izod			
notched 1/8 in (3.2 mm) section	1.8 ft-lbs/in	96 J/m	D 256
unnotched 1/8 in (3.2 mm) section	10.0 ft-lbs/in	534 J/m	D 4812
Tensile Strength	20000 psi	138 MPa	D 638
Tensile Elongation	1.5 - 2.5 %	1.5 - 2.5 %	D 638
Tensile Modulus	1.85 x 10 <sup>6</sup> psi	12756 MPa	D 638
Flexural Strength	30000 psi	207 MPa	D 790
Flexural Modulus	1.75 x 10 <sup>6</sup> psi	12066 MPa	D 790
Hardness			
Rockwell, R	118	118	D 785
<b>ELECTRICAL</b>			
Volume Resistivity	< 1E4 ohm.cm	< 1E4 ohm.cm	D 257
<b>THERMAL</b>			
Deflection Temperature			
@ 264 psi (1820 kPa)	295 °F	146 °C	D 648
@ 66 psi (455 kPa)	300 °F	149 °C	D 648
Ignition Resistance*			
Flammability**	V-0 @ 1/16 in	V-0 @ 1.5 mm	D 3801

**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.

\* This rating is not intended to reflect hazards of this or any other material under actual fire conditions.

\*\* Values per RTP Company testing.

**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