



**Product Data Sheet &  
General Processing Conditions**

**RTP 300 TC-I-15  
Polycarbonate (PC)  
Thermally Conductive  
Electrically Insulative**

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

<b>PERMANENCE</b>	<b>English</b>	<b>SI Metric</b>	<b>ASTM TEST</b>
Specific Gravity	2.45	2.45	D 792
<b>MECHANICAL</b>			
Impact Strength, Izod			
notched 1/8 in (3.2 mm) section	0.5 ft-lbs/in	27 J/m	D 256
unnotched 1/8 in (3.2 mm) section	1.5 ft-lbs/in	80 J/m	D 4812
Tensile Strength	5000 psi	34 MPa	D 638
Tensile Elongation	< 1.0 %	< 1.0 %	D 638
Tensile Modulus	1.50 x 10 <sup>6</sup> psi	10342 MPa	D 638
Flexural Strength	8000 psi	55 MPa	D 790
Flexural Modulus	1.50 x 10 <sup>6</sup> psi	10342 MPa	D 790
<b>ELECTRICAL</b>			
Surface Resistivity	> 1E12 ohm/sq	> 1E12 ohm/sq	D 257
<b>THERMAL</b>			
Deflection Temperature			
@ 264 psi (1820 kPa)	240 °F	116 °C	D 648
Thermal Conductivity			
Through-plane	5.21 (BTU.in)/(hr.ft <sup>2</sup> .°F)	0.75 W/(m.K)	E 1530

**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.