



**Product Data Sheet &  
General Processing Conditions**

**RTP 300 TC-C-20  
Polycarbonate (PC)  
Thermally Conductive  
Electrically Conductive**

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

<b>PERMANENCE</b>	<b>English</b>	<b>SI Metric</b>	<b>ASTM TEST</b>
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Specific Gravity	1.53	1.53	D 792
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**MECHANICAL**

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	1.8 ft-lbs/in	96 J/m	D 4812
Tensile Strength	6000 psi	41 MPa	D 638
Tensile Elongation	< 1.0 %	< 1.0 %	D 638
Tensile Modulus	1.00 x 10 <sup>6</sup> psi	6895 MPa	D 638
Flexural Strength	9600 psi	66 MPa	D 790
Flexural Modulus	1.00 x 10 <sup>6</sup> psi	6895 MPa	D 790

**ELECTRICAL**

Volume Resistivity	< 1E2 ohm.cm	< 1E2 ohm.cm	D 257
Surface Resistivity	< 1E4 ohm/sq	< 1E4 ohm/sq	D 257

**THERMAL**

Deflection Temperature			
@ 264 psi (1820 kPa)	265 °F	129 °C	D 648
Thermal Conductivity			
Through-plane	9.00 (BTU.in)/(hr.ft <sup>2</sup> .°F)	1.30 W/(m.K)	E 1530
In-plane	34.72 (BTU.in)/(hr.ft <sup>2</sup> .°F)	5.00 W/(m.K)	E 1461-92

**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 - 18000 psi	69 - 124 MPa
Melt Temperature	550 - 610 °F	288 - 321 °C
Mold Temperature	150 - 225 °F	66 - 107 °C
Drying	4 hrs @ 250 °F	4 hrs @ 121 °C
Moisture Content	0.10 %	0.10 %
Dew Point	< -30 °F	< -34 °C

**PROCESSING NOTES**

Desiccant Type Dryer Required.