




**Product Data Sheet &  
General Processing Conditions**

**RTP 200 TC-C-30 FR  
Nylon 6/6 (PA)  
Thermally Conductive  
Electrically Conductive  
Flame Retardant  
Preliminary**



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

<b>PERMANENCE</b>	<b>English</b>	<b>SI Metric</b>	<b>ASTM TEST</b>
Specific Gravity	1.65	1.65	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0010 - 0.0030 in/in	0.10 - 0.30 %	D 955
<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	3.0 ft-lbs/in	160 J/m	D 4812
Tensile Strength	10000 psi	69 MPa	D 638
Tensile Elongation	1.0 - 2.0 %	1.0 - 2.0 %	D 638
Tensile Modulus	2.30 x 10 <sup>6</sup> psi	15858 MPa	D 638
Flexural Strength	15000 psi	103 MPa	D 790
Flexural Modulus	2.20 x 10 <sup>6</sup> psi	15169 MPa	D 790
<b>ELECTRICAL</b>			
Volume Resistivity	< 1E2 ohm.cm	< 1E2 ohm.cm	D 257
Surface Resistivity	< 1E4 ohm/sq	< 1E4 ohm/sq	D 257
<b>THERMAL</b>			
Deflection Temperature @ 264 psi (1820 kPa)	460 °F	238 °C	D 648
Ignition Resistance* Flammability	V-0 @ 1/16 in	V-0 @ 1.5 mm	UL94
Thermal Conductivity Through-plane	15.90 (BTU.in)/(hr.ft <sup>2</sup> .°F)	2.29 W/(m.K)	E 1530
In-plane	97.20 (BTU.in)/(hr.ft <sup>2</sup> .°F)	14.01 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.  
\* This rating is not intended to reflect hazards of this or any other material under actual fire conditions.

**GENERAL PROCESSING FOR INJECTION MOLDING**

	<b>English</b>	<b>SI Metric</b>
Injection Pressure	10000 - 18000 psi	69 - 124 MPa
Melt Temperature	530 - 570 °F	277 - 299 °C
Mold Temperature	150 - 225 °F	66 - 107 °C
Drying	4 hrs @ 175 °F	4 hrs @ 79 °C
Moisture Content	0.20 %	0.20 %
Dew Point	0 °F	-18 °C