




**Product Data Sheet &  
General Processing Conditions**

**RTP 200 TC-I-25 FR  
Nylon 6/6 (PA)  
Thermally Conductive  
Electrically Insulative  
Flame Retardant**



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

<b>PERMANENCE</b>	<b>English</b>	<b>SI Metric</b>	<b>ASTM TEST</b>
Specific Gravity	1.86	1.86	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0010 - 0.0020 in/in	0.10 - 0.20 %	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	1.5 ft-lbs/in	80 J/m	D 4812
Tensile Strength	9000 psi	62 MPa	D 638
Tensile Elongation	< 1.0 %	< 1.0 %	D 638
Tensile Modulus	3.50 x 10 <sup>6</sup> psi	24132 MPa	D 638
Flexural Strength	15000 psi	103 MPa	D 790
Flexural Modulus	3.50 x 10 <sup>6</sup> psi	24132 MPa	D 790
<b>ELECTRICAL</b>			
Dielectric Strength, S/T, in oil	394 VPM	15.5 kV/mm	D 149
Surface Resistivity	> 1E14 ohm/sq	> 1E14 ohm/sq	D 257
<b>THERMAL</b>			
Ignition Resistance* Flammability	V-0 @ 1/16 in	V-0 @ 1.5 mm	UL94
Thermal Conductivity Through-plane	10.42 (BTU.in)/(hr.ft <sup>2</sup> .°F)	1.50 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.  
\* 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

**PROCESSING NOTES**

Desiccant Type Dryer Required.