




**Product Data Sheet &  
General Processing Conditions**

**RTP 200 H FR  
Impact-Modified Nylon 6/6 (PA)  
High Impact  
Unreinforced  
Flame Retardant  
UL94 V-0**



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

<b>PERMANENCE</b>	<b>English</b>	<b>SI Metric</b>	<b>ASTM TEST</b>
Specific Gravity	1.26	1.26	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0180 - 0.0240 in/in	1.80 - 2.40 %	D 955
Water Absorption, 24 hrs @ 23°C	0.800 %	0.800 %	D 570
<b>MECHANICAL</b>			
Impact Strength, Izod notched 1/8 in (3.2 mm) section	5.0 ft-lbs/in	267 J/m	D 256
unnotched 1/8 in (3.2 mm) section	No Break	No Break	D 4812
Tensile Strength	6700 psi	46 MPa	D 638
Tensile Elongation	> 10.0 %	> 10.0 %	D 638
Tensile Modulus	0.32 x 10 <sup>6</sup> psi	2206 MPa	D 638
Flexural Strength	11000 psi	76 MPa	D 790
Flexural Modulus	0.30 x 10 <sup>6</sup> psi	2068 MPa	D 790
Hardness Rockwell, R	112	112	D 785
<b>ELECTRICAL</b>			
Dielectric Strength, S/T, in oil	500 VPM	19.7 kV/mm	D 149
Dielectric Constant, 1 MHz, Dry	3.7	3.7	D 150
Dissipation Factor, 1 MHz, Dry	0.0160	0.0160	D 150
Volume Resistivity	> 1E16 ohm.cm	> 1E16 ohm.cm	D 257
<b>THERMAL</b>			
Deflection Temperature @ 264 psi (1820 kPa)	160 °F	71 °C	D 648
@ 66 psi (455 kPa)	375 °F	191 °C	D 648
Ignition Resistance* Flammability	V-0 @ 1/16 in	V-0 @ 1.5 mm	UL94

**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