




**Product Data Sheet &  
General Processing Conditions**

**RTP 200 A  
Nylon 6 (PA)  
Unreinforced  
UL94 V-2 (NC)  
UL94 HB (All Colors)**



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

<b>PERMANENCE</b>	<b>English</b>	<b>SI Metric</b>	<b>ASTM TEST</b>
Specific Gravity	1.13	1.13	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0130 - 0.0170 in/in	1.30 - 1.70 %	D 955
Water Absorption, 24 hrs @ 23°C	1.900 %	1.900 %	D 570

**MECHANICAL**

Impact Strength, Izod notched 1/8 in (3.2 mm) section	0.8 ft-lbs/in	43 J/m	D 256
unnotched 1/8 in (3.2 mm) section	No Break	No Break	D 4812
Tensile Strength	11000 psi	76 MPa	D 638
Tensile Elongation	> 10.0 %	> 10.0 %	D 638
Tensile Modulus	0.40 x 10 <sup>6</sup> psi	2758 MPa	D 638
Flexural Strength	16000 psi	110 MPa	D 790
Flexural Modulus	0.43 x 10 <sup>6</sup> psi	2965 MPa	D 790
Hardness Rockwell, R	116	116	D 785

**ELECTRICAL**

Dielectric Strength, S/T, in oil	400 VPM	15.7 kV/mm	D 149
Dielectric Constant, 1 MHz, Dry	3.4	3.4	D 150
Dissipation Factor, 1 MHz, Dry	0.0300	0.0300	D 150
Volume Resistivity	> 1E11 ohm.cm	> 1E11 ohm.cm	D 257

**THERMAL**

Deflection Temperature @ 264 psi (1820 kPa)	160 °F	71 °C	D 648
@ 66 psi (455 kPa)	340 °F	171 °C	D 648
Ignition Resistance*			
Flammability	V-2 @ 1/32 in	V-2 @ 0.8 mm	UL94
Flammability	HB @ 1/32 in	HB @ 0.8 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 - 15000 psi	69 - 103 MPa
Melt Temperature	470 - 535 °F	243 - 279 °C
Mold Temperature	130 - 200 °F	54 - 93 °C
Drying	2 hrs @ 180 °F	2 hrs @ 82 °C
Moisture Content	0.20 %	0.20 %
Dew Point	0 °F	-18 °C