



**Product Data Sheet &
General Processing Conditions**

**RTP 201 A FR
Nylon 6 (PA)
Glass Fiber
Flame Retardant**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Primary Additive	10 %	10 %	
Specific Gravity	1.53	1.53	D 792
Molding Shrinkage			
1/8 in (3.2 mm) section	0.0040 - 0.0060 in/in	0.40 - 0.60 %	D 955
Water Absorption, 24 hrs @ 23°C	1.500 %	1.500 %	D 570

MECHANICAL

Impact Strength, Izod			
notched 1/8 in (3.2 mm) section	1.4 ft-lbs/in	75 J/m	D 256
unnotched 1/8 in (3.2 mm) section	9.0 ft-lbs/in	481 J/m	D 4812
Tensile Strength	13000 psi	90 MPa	D 638
Tensile Elongation	3.0 - 5.0 %	3.0 - 5.0 %	D 638
Tensile Modulus	0.90 x 10 ⁶ psi	6206 MPa	D 638
Flexural Strength	20000 psi	138 MPa	D 790
Flexural Modulus	0.75 x 10 ⁶ psi	5171 MPa	D 790
Hardness			
Rockwell, R	116	116	D 785

ELECTRICAL

Dielectric Strength, S/T, in oil	475 VPM	18.7 kV/mm	D 149
Dielectric Constant, 1 MHz, Dry	3.8	3.8	D 150
Dissipation Factor, 1 MHz, Dry	0.0170	0.0170	D 150
Volume Resistivity	> 1E14 ohm.cm	> 1E14 ohm.cm	D 257

THERMAL

Deflection Temperature			
@ 264 psi (1820 kPa)	360 °F	182 °C	D 648
@ 66 psi (455 kPa)	390 °F	199 °C	D 648
Ignition Resistance*			
Flammability**	V-0 @ 1/16 in	V-0 @ 1.5 mm	D 3801

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.

** Values per RTP Company testing.

GENERAL PROCESSING FOR INJECTION MOLDING

	English	SI Metric
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