



**Product Data Sheet &
General Processing Conditions**

**RTP 200 TC-I-15 FR
Nylon 6/6 (PA)
Thermally Conductive
Electrically Insulative
Flame Retardant**



PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity	1.64	1.64	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0030 - 0.0050 in/in	0.30 - 0.50 %	D 955

MECHANICAL

Impact Strength, Izod notched 1/8 in (3.2 mm) section	0.7 ft-lbs/in	37 J/m	D 256
unnotched 1/8 in (3.2 mm) section	6.0 ft-lbs/in	320 J/m	D 4812
Tensile Strength	12000 psi	83 MPa	D 638
Tensile Elongation	1.0 - 2.0 %	1.0 - 2.0 %	D 638
Tensile Modulus	1.10 x 10 ⁶ psi	7584 MPa	D 638
Flexural Strength	18500 psi	128 MPa	D 790
Flexural Modulus	1.00 x 10 ⁶ psi	6895 MPa	D 790

ELECTRICAL

Dielectric Strength, S/T, in oil	360 VPM	14.2 kV/mm	D 149
Surface Resistivity	> 1E12 ohm/sq	> 1E12 ohm/sq	D 257

THERMAL

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	5.07 (BTU.in)/(hr.ft ² .°F)	0.73 W/(m.K)	E 1530
In-plane	8.33 (BTU.in)/(hr.ft ² .°F)	1.20 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

	English	SI Metric
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.