



**Product Data Sheet &
General Processing Conditions**

RTP 299 X 137151 B
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	1.90	1.90	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0020 - 0.0040 in/in	0.20 - 0.40 %	D 955
MECHANICAL			
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	2.0 ft-lbs/in	107 J/m	D 4812
Tensile Strength	8000 psi	55 MPa	D 638
Tensile Elongation	< 1.0 %	< 1.0 %	D 638
Tensile Modulus	2.30 x 10 ⁶ psi	15858 MPa	D 638
Flexural Strength	13000 psi	90 MPa	D 790
Flexural Modulus	2.30 x 10 ⁶ psi	15858 MPa	D 790
ELECTRICAL			
Surface Resistivity	> 1E12 ohm/sq	> 1E12 ohm/sq	D 257
THERMAL			
Ignition Resistance*			
Flammability	V-0 @ 1/16 in	V-0 @ 1.5 mm	UL94
Thermal Conductivity			
Through-plane	8.33 (BTU.in)/(hr.ft ² .°F)	1.20 W/(m.K)	E 1530
In-plane	34.72 (BTU.in)/(hr.ft ² .°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

	English	SI Metric
Injection Pressure	10000 - 18000 psi	69 - 124 MPa
Melt Temperature	530 - 570 °F	277 - 299 °C
Mold Temperature	175 - 250 °F	79 - 121 °C
Drying	4 hrs @ 175 °F	4 hrs @ 79 °C
Moisture Content	0.20 %	0.20 %
Dew Point	0 °F	-18 °C