



**Product Data Sheet &
General Processing Conditions**

**RTP 299 X 140979
Nylon 6/6 (PA)
Thermally Conductive
Electrically Insulative**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity	1.84	1.84	D 792

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	7.0 ft-lbs/in	374 J/m	D 4812
Tensile Strength	13500 psi	93 MPa	D 638
Tensile Elongation	1.0 - 2.0 %	1.0 - 2.0 %	D 638
Tensile Modulus	1.60 x 10 ⁶ psi	11032 MPa	D 638
Flexural Strength	22000 psi	152 MPa	D 790
Flexural Modulus	1.60 x 10 ⁶ psi	11032 MPa	D 790

ELECTRICAL

Dielectric Strength, S/T, in oil	381 VPM	15.0 kV/mm	D 149
Surface Resistivity	> 1E12 ohm/sq	> 1E12 ohm/sq	D 257

THERMAL

Thermal Conductivity			
Through-plane	4.86 (BTU.in)/(hr.ft ² .°F)	0.70 W/(m.K)	E 1530
In-plane	9.03 (BTU.in)/(hr.ft ² .°F)	1.30 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.

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.