



**Product Data Sheet &
General Processing Conditions**

**RTP 299 X 134444 C
Nylon 6/6 (PA)
Thermally Conductive
Electrically Insulative**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
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Specific Gravity	1.73	1.73	D 792
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MECHANICAL

Impact Strength, Izod			
notched 1/8 in (3.2 mm) section	0.6 ft-lbs/in	32 J/m	D 256
unnotched 1/8 in (3.2 mm) section	3.5 ft-lbs/in	187 J/m	D 4812
Tensile Strength	12000 psi	83 MPa	D 638
Tensile Elongation	1.0 %	1.0 %	D 638
Tensile Modulus	2.20 x 10 ⁶ psi	15169 MPa	D 638
Flexural Strength	18000 psi	124 MPa	D 790
Flexural Modulus	2.10 x 10 ⁶ psi	14480 MPa	D 790

ELECTRICAL

Surface Resistivity	> 1E12 ohm/sq	> 1E12 ohm/sq	D 257
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THERMAL

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.

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.