



**Product Data Sheet &
General Processing Conditions**

**RTP 200 A TC-I-10
Nylon 6 (PA)
Thermally Conductive
Electrically Insulative
95% Reflectivity**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
Specific Gravity	1.51	1.51	D 792

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	8.0 ft-lbs/in	427 J/m	D 4812
Tensile Strength	11000 psi	76 MPa	D 638
Tensile Elongation	2.0 %	2.0 %	D 638
Tensile Modulus	1.00 x 10 ⁶ psi	6895 MPa	D 638
Flexural Strength	19000 psi	131 MPa	D 790
Flexural Modulus	1.00 x 10 ⁶ psi	6895 MPa	D 790

ELECTRICAL

Dielectric Strength, S/T, in oil	384 VPM	15.1 kV/mm	D 149
Surface Resistivity	> 1E14 ohm/sq	> 1E14 ohm/sq	D 257

THERMAL

Deflection Temperature @ 264 psi (1820 kPa)	340 °F	171 °C	D 648
Thermal Conductivity			
Through-plane	3.47 (BTU.in)/(hr.ft ² .°F)	0.50 W/(m.K)	E 1530
In-plane	7.64 (BTU.in)/(hr.ft ² .°F)	1.10 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 - 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

PROCESSING NOTES

Desiccant Type Dryer Required.