



**Product Data Sheet &  
General Processing Conditions**

**RTP 299 X 137092 D  
Nylon 6/6 (PA)  
Thermally Conductive  
Electrically Insulative  
95% Reflectivity**

**PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS**

<b>PERMANENCE</b>	<b>English</b>	<b>SI Metric</b>	<b>ASTM TEST</b>
Specific Gravity	1.83	1.83	D 792

**MECHANICAL**

Impact Strength, Izod			
notched 1/8 in (3.2 mm) section	0.8 ft-lbs/in	40 J/m	D 256
unnotched 1/8 in (3.2 mm) section	7.0 ft-lbs/in	374 J/m	D 4812
Tensile Strength	15000 psi	103 MPa	D 638
Tensile Elongation	1.0 - 2.0 %	1.0 - 2.0 %	D 638
Tensile Modulus	1.70 x 10 <sup>6</sup> psi	11722 MPa	D 638
Flexural Strength	22000 psi	152 MPa	D 790
Flexural Modulus	1.50 x 10 <sup>6</sup> psi	10342 MPa	D 790

**ELECTRICAL**

Volume Resistivity	> 1E12 ohm.cm	> 1E12 ohm.cm	D 257
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**THERMAL**

Thermal Conductivity			
Through-plane	6.94 (BTU.in)/(hr.ft <sup>2</sup> .°F)	1.00 W/(m.K)	E 1530
In-plane	17.36 (BTU.in)/(hr.ft <sup>2</sup> .°F)	2.50 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**

	<b>English</b>	<b>SI Metric</b>
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.