



**Product Data Sheet &  
General Processing Conditions**

**RTP 227  
Nylon 6/6 (PA)  
Mineral**

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

<b>PERMANENCE</b>	<b>English</b>	<b>SI Metric</b>	<b>ASTM TEST</b>
Primary Additive	40 %	40 %	
Specific Gravity	1.50	1.50	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0070 - 0.0110 in/in	0.70 - 1.10 %	D 955
Water Absorption, 24 hrs @ 23°C	0.500 %	0.500 %	D 570

**MECHANICAL**

Impact Strength, Izod notched 1/8 in (3.2 mm) section	0.8 ft-lbs/in	43 J/m	D 256
unnotched 1/8 in (3.2 mm) section	5.0 ft-lbs/in	267 J/m	D 4812
Tensile Strength	11000 psi	76 MPa	D 638
Tensile Elongation	2.5 %	2.5 %	D 638
Tensile Modulus	1.20 x 10 <sup>6</sup> psi	8274 MPa	D 638
Flexural Strength	18000 psi	124 MPa	D 790
Flexural Modulus	1.00 x 10 <sup>6</sup> psi	6895 MPa	D 790
Hardness Rockwell, R	120	120	D 785

**ELECTRICAL**

Volume Resistivity	> 1E14 ohm.cm	> 1E14 ohm.cm	D 257
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**THERMAL**

Deflection Temperature @ 264 psi (1820 kPa)	400 °F	204 °C	D 648
@ 66 psi (455 kPa)	460 °F	238 °C	D 648
Ignition Resistance* Flammability**	HB @ 1/16 in	HB @ 1.5 mm	D 635

**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.

\*\* Values per RTP Company testing.

**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.