



**Product Data Sheet &
General Processing Conditions**

**RTP 287
Nylon 6/6 (PA)
Carbon Fiber**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE **STANDARD**

Primary Additive	40 %	
Density	1.31 g/cm ³	ISO 1183
Shrinkage, 4 mm Thickness		
Flow direction	0.05 - 0.20 %	ASTM D 955

MECHANICAL

Impact Strength, Izod		
Notched, 4 mm thickness	10 kJ/m ²	ISO 180/1A
Unnotched, 4 mm thickness	92 kJ/m ²	ISO 180/1U
Tensile Strength	253 MPa	ISO 527
Tensile Elongation	1.0 - 2.0 %	ISO 527
Tensile Modulus	29903 MPa	ISO 527
Flexural Strength	370 MPa	ISO 178
Flexural Modulus	24528 MPa	ISO 178

ELECTRICAL

Volume Resistivity	< 1E1 ohm.cm	IEC 60093
--------------------	--------------	-----------

THERMAL

Heat Deflection Temperature		
@ 1.80 MPa	253 °C	ISO 75
Ignition Resistance*		
Flammability**	HB @ 1.5 mm	ISO 1210

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

Injection Pressure	70 - 125 MPa
Injection Pressure	680 - 1240 bar
Melt Temperature	275 - 300 °C
Mold Temperature	65 - 105 °C
Drying	4 hrs @ 80 °C
Moisture Content	0.20 %
Dew Point	-25 °C

PROCESSING NOTES

Desiccant Type Dryer Required.