



**Product Data Sheet &  
General Processing Conditions**

**RTP 285  
Nylon 6/6 (PA)  
Carbon Fiber**

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

**PERMANENCE** **STANDARD**

Density	1.26 g/cm <sup>3</sup>	ISO 1183
Shrinkage, 4 mm Thickness		
Flow direction	0.05 - 0.20 %	ASTM D 955

**MECHANICAL**

Impact Strength, Izod		
Notched, 4 mm thickness	8 kJ/m <sup>2</sup>	ISO 180/1A
Unnotched, 4 mm thickness	51 kJ/m <sup>2</sup>	ISO 180/1U
Tensile Strength	238 MPa	ISO 527
Tensile Elongation	2.0 - 3.0 %	ISO 527
Tensile Modulus	20500 MPa	ISO 527
Flexural Strength	335 MPa	ISO 178
Flexural Modulus	15500 MPa	ISO 178

**ELECTRICAL**

Volume Resistivity	< 1E2 ohm.cm	IEC 60093
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**THERMAL**

Heat Deflection Temperature		
@ 1.80 MPa	249 °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.