



**Product Data Sheet &
General Processing Conditions**

**RTP 283
Nylon 6/6 (PA)
Carbon Fiber Reinforced**

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE		STANDARD
Primary Additive	20 %	
Density	1.21 g/cm ³	ISO 1183
Shrinkage, 4 mm Thickness		
Flow direction	0.18 %	ASTM D 955

MECHANICAL		
Impact Strength, Izod		
Notched, 4 mm thickness	7 kJ/m ²	ISO 180/1A
Unnotched, 4 mm thickness	39 kJ/m ²	ISO 180/1U
Tensile Strength	220 MPa	ISO 527
Tensile Elongation	2.0 - 3.0 %	ISO 527
Tensile Modulus	14300 MPa	ISO 527
Flexural Strength	280 MPa	ISO 178
Flexural Modulus	13800 MPa	ISO 178

ELECTRICAL		
Volume Resistivity	< 1E3 ohm.cm	IEC 60093
Surface Resistivity	< 1E5 ohm	IEC 60093

THERMAL		
Heat Deflection Temperature		
@ 1.80 MPa	248 °C	ISO 75

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

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.