



**Product Data Sheet &  
General Processing Conditions**

**RTP 2187 UP  
Polyetherimide (PEI)  
Carbon Fiber  
Ultra Performance**

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

<b>PERMANENCE</b>		<b>STANDARD</b>
Primary Additive	40 %	
Density	1.43 g/cm <sup>3</sup>	ISO 1183
<b>MECHANICAL</b>		
Impact Strength, Izod		
Notched, 4 mm thickness	7 kJ/m <sup>2</sup>	ISO 180/1A
Unnotched, 4 mm thickness	45 kJ/m <sup>2</sup>	ISO 180/1U
Tensile Strength	255 MPa	ISO 527
Tensile Elongation	0.9 %	ISO 527
Tensile Modulus	37000 MPa	ISO 527
Flexural Strength	390 MPa	ISO 178
Flexural Modulus	29500 MPa	ISO 178

**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	80 - 125 MPa
Injection Pressure	820 - 1240 bar
Melt Temperature	355 - 400 °C
Mold Temperature	135 - 175 °C
Drying	4 hrs @ 150 °C
Moisture Content	0.04 %
Dew Point	-30 °C

**PROCESSING NOTES**

Desiccant Type Dryer Required.