



**Product Data Sheet &  
General Processing Conditions**

**RTP 2285 HF  
Polyetheretherketone (PEEK)  
Carbon Fiber  
High Flow**

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

<b>PERMANENCE</b>		<b>STANDARD</b>
Primary Additive	30 %	
Density	1.41 g/cm <sup>3</sup>	ISO 1183
Shrinkage, 4 mm Thickness		
Flow direction	0.01 %	ASTM D 955

<b>MECHANICAL</b>		
Impact Strength, Izod		
Notched, 4 mm thickness	6 kJ/m <sup>2</sup>	ISO 180/1A
Unnotched, 4 mm thickness	40 kJ/m <sup>2</sup>	ISO 180/1U
Tensile Strength	270 MPa	ISO 527
Tensile Elongation	1.0 - 2.0 %	ISO 527
Tensile Modulus	28000 MPa	ISO 527
Flexural Strength	380 MPa	ISO 178
Flexural Modulus	25500 MPa	ISO 178

<b>ELECTRICAL</b>		
Volume Resistivity	< 1E5 ohm.cm	IEC 60093

<b>THERMAL</b>		
Heat Deflection Temperature @ 1.80 MPa	316 °C	ISO 75
Ignition Resistance* Flammability**	V-0 @ 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	80 - 125 MPa
Injection Pressure	820 - 1240 bar
Melt Temperature	350 - 400 °C
Mold Temperature	160 - 220 °C
Drying	3 hrs @ 150 °C
Moisture Content	0.10 %
Dew Point	-30 °C

**PROCESSING NOTES**

Desiccant Type Dryer Required.

This information is intended to be used only as a guideline for designers and processors of modified thermoplastics. Because design and processing is complex, a set solution will not solve all problems. Observation on a "trial and error" basis may be required to achieve desired results.

Data are obtained from specimens molded under carefully controlled conditions from representative samples of the compound described herein. Properties may be materially affected by molding techniques applied and by the size and shape of the item molded. No assurance can be implied that all molded articles will have the same properties as those listed.

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