



**Product Data Sheet &
General Processing Conditions**

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

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

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

MECHANICAL		
Impact Strength, Izod		
Notched, 4 mm thickness	6 kJ/m ²	ISO 180/1A
Unnotched, 4 mm thickness	40 kJ/m ²	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

ELECTRICAL		
Volume Resistivity	< 1E5 ohm.cm	IEC 60093

THERMAL		
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.