



**Product Data Sheet &  
General Processing Conditions**

**RTP 2287 A  
Polyetherketone (PEK)  
Carbon Fiber**

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

<b>PERMANENCE</b>	<b>English</b>	<b>SI Metric</b>	<b>ASTM TEST</b>
Primary Additive	40 %	40 %	
Specific Gravity	1.45	1.45	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0005 in/in	0.05 %	D 955

**MECHANICAL**

Impact Strength, Izod notched 1/8 in (3.2 mm) section	1.7 ft-lbs/in	91 J/m	D 256
unnotched 1/8 in (3.2 mm) section	15.0 ft-lbs/in	801 J/m	D 4812
Tensile Strength	42000 psi	290 MPa	D 638
Tensile Elongation	1.3 %	1.3 %	D 638
Tensile Modulus	5.40 x 10 <sup>6</sup> psi	37233 MPa	D 638
Flexural Strength	62000 psi	427 MPa	D 790
Flexural Modulus	4.50 x 10 <sup>6</sup> psi	31028 MPa	D 790

**THERMAL**

Deflection Temperature @ 264 psi (1820 kPa)	600 °F	316 °C	D 648
Ignition Resistance* Flammability**	V-0 @ 1/16 in	V-0 @ 1.5 mm	D 3801

**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**

	<b>English</b>	<b>SI Metric</b>
Injection Pressure	10000 - 20000 psi	69 - 138 MPa
Melt Temperature	725 - 775 °F	385 - 413 °C
Mold Temperature	355 - 425 °F	179 - 218 °C
Drying	2 hrs @ 355 °F	2 hrs @ 179 °C
Moisture Content	0.10 %	0.10 %
Dew Point	-20 °F	-29 °C

**PROCESSING NOTES**

Desiccant Type Dryer Required.