



**Product Data Sheet &  
General Processing Conditions**

**RTP 2299 X 120337  
Polyetheretherketone (PEEK)  
Carbon Fiber  
Wear Resistant**

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

<b>PERMANENCE</b>	<b>English</b>	<b>SI Metric</b>	<b>ASTM TEST</b>
Specific Gravity	1.47	1.47	D 792
Molding Shrinkage 1/8 in (3.2 mm) section	0.0005 in/in	0.05 %	D 955
<b>MECHANICAL</b>			
Impact Strength, Izod notched 1/8 in (3.2 mm) section	1.8 ft-lbs/in	96 J/m	D 256
unnotched 1/8 in (3.2 mm) section	17.0 ft-lbs/in	908 J/m	D 4812
Tensile Strength	39000 psi	269 MPa	D 638
Tensile Elongation	1.0 - 2.0 %	1.0 - 2.0 %	D 638
Tensile Modulus	5.30 x 10 <sup>6</sup> psi	36544 MPa	D 638
Flexural Strength	59000 psi	407 MPa	D 790
Flexural Modulus	5.00 x 10 <sup>6</sup> psi	34475 MPa	D 790
<b>ELECTRICAL</b>			
Volume Resistivity	< 1E6 ohm.cm	< 1E6 ohm.cm	D 257
<b>THERMAL</b>			
Deflection Temperature @ 264 psi (1820 kPa)	600 °F	316 °C	D 648

**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**

	<b>English</b>	<b>SI Metric</b>
Injection Pressure	12000 - 18000 psi	83 - 124 MPa
Melt Temperature	680 - 750 °F	360 - 399 °C
Mold Temperature	325 - 425 °F	163 - 218 °C
Drying	3 hrs @ 300 °F	3 hrs @ 149 °C
Moisture Content	0.10 %	0.10 %
Dew Point	-20 °F	-29 °C

**PROCESSING NOTES**

Desiccant Type Dryer Required.