



Product Data Sheet & General Processing Conditions

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

PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS

PERMANENCE	English	SI Metric	ASTM TEST
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
MECHANICAL			
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 ⁶ psi	36544 MPa	D 638
Flexural Strength	59000 psi	407 MPa	D 790
Flexural Modulus	5.00 x 10 ⁶ psi	34475 MPa	D 790
ELECTRICAL			
Volume Resistivity	< 1E6 ohm.cm	< 1E6 ohm.cm	D 257
THERMAL			
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

	English	SI Metric
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.