



** PEEK® is the registered trademark of

VICTREX

PRODUCT CAPABILITIES:

- Sheet : 1/4" - 1"

ADVANTAGES:

- PEEK With Ceramic Fillers To Significantly Improve Its Mechanical Properties.
- Excellent Dimensional Stability
- Good Impact Strength, Stiffness And Minimum Levels Of Creep.
- Better Impact Resistance And Toughness Compared With Ceramics.
- Excellent Machinability For Tighter Pitch And Fine Diameter Holes.

PRODUCT COLORS:

- White

APPLICATIONS INCLUDE:

- Test Sockets
- Switches
- Connectors

GENERAL PROPERTIES	ASTM or UL Test	CERAMIC - FILLED PEEK® Typical Values
PHYSICAL		
Specific Gravity (g/cm ³)	D792	1.51
Water Absorption, 24 hrs (%)	D570	0.37
MECHANICAL		
Tensile Strength (psi)	D638	13,000
Tensile Modulus (psi)	D638	650,000
Tensile Elongation at Break (%)	D638	> 10
Flexural Strength (psi)	D790	23,000
Flexural Modulus (psi)	D790	650,000
Compressive Strength (psi)	D695	17,000
IZOD Notched Impact (ft-lb/in)	D256	1.0
IZOD Un-Notched Impact (ft-lb/in)	D256	-
Hardness, Rockwell	D785	M 103
THERMAL		
Coeff. of Thermal Expansion(x 10 ⁻⁵ in./in./°F)	D696	2.0
Heat Deflection Temp (°F / °C) @ 264 psi	D648	500 / 260
Melting Point (°F / °C)	D3418	645 / 341
Tg Glass Transition Temp (°F / °C)	D3418	290 / 143
Thermal Conductivity (BTU-in/ft ² -hr-°F)	C177	2.0
Flammability Rating	UL94	-
ELECTRICAL		
Dielectric Strength (V/mil) short time, (t) 1/8"	D149	400
Dielectric Constant at 1 KHz	D150	3.5
Dissipation Factor at 1 KHz	D150	< 0.005
Surface Resistivity (ohm/sq)	D257	> 10 ¹³
Volume Resistivity (ohm/sq)	D257	10 ¹⁵

NOTE: The information contained here in is typical values intended for reference only. They should NOT be used as a basis for design specifications or quality control.