



** KETRON® is the registered trademark of

QUADRANT

PRODUCT CAPABILITIES:

- Rod : 6mm - 200mm
- Sheet : 5mm - 50mm

PRODUCT COLORS:

- Light Brown

ADVANTAGES:

- Glass Fibers Filled Significantly Reduces The Expansion Rate And Increases The Flexural Modulus of PEEK
- Is Ideal For Structural Application That Require Improved Strength, Stiffness, Or Stability, Especially At Temperature Above 150°C
- Very High Max. Allowable Service Temperature In Air (250°C Continuous, Up To 310°C For Short Periods)
- High Mechanical Strength, Stiffness And Creep Resistance

APPLICATIONS INCLUDE:

- Gas Analyses Structural Body Parts
- Scraper Blades In Head Exchangers
- Sleeve Bearings For Steel Wire Guide Rollers
- Pump Wear Rings

GENERAL PROPERTIES	ASTM or UL Test	KETRON® PEEK GF30 Typical Values
PHYSICAL		
Specific Gravity (g/cm ³)	D792	1.51
Water Absorption, 24 hrs (%)	D570	0.1
MECHANICAL		
Tensile Strength (psi)	D638	14,000
Tensile Modulus (psi)	D638	1,000,000
Tensile Elongation at Break (%)	D638	2
Flexural Strength (psi)	D790	23,000
Flexural Modulus (psi)	D790	1,000,000
Compressive Strength (psi)	D695	22,000
Compressive Modulus (psi)	D695	550,000
Hardness, Rockwell	D785	M103
IZOD Notched Impact (ft-lb/in)	D256	0.8
THERMAL		
Coeff. of Thermal Expansion (x 10 ⁻⁵ in./in./°F)	E831	1.2
Heat Deflection Temp (°F / °C) @ 264 psi	D648	456 / 232
Melting Temp (°F / °C)	D3418	644 / 340
Max Operating Temp (°F / °C)	-	480 / 249
Thermal Conductivity (BTU-in/ft ² -hr-°F)	F433	2.98
Flammability Rating	UL94	V-0
ELECTRICAL		
Dielectric Strength (V/mil) short time	D149	500
Dielectric Constant at 1 MHz	D150	-
Dissipation Factor at 1 MHz	D150	-
Surface Resistivity (ohm/sq) at 50% RH	EOS/ESD S11.11	>10 ¹³

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.