



** KETRON® is the registered trademark of

QUADRANT

PRODUCT CAPABILITIES:

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

ADVANTAGES:

- Carbon Fiber Reinforced With Graphite And PTFE Lubricants
- Low Coefficient Of Friction And The Best Machinability for all PEEK Grades
- Low Friction, Low Wear, High Limiting PV, Low Mating Part Wear And Easy Machining
- 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

PRODUCT COLORS:

- Dark Grey

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 HPV Typical Values
PHYSICAL		
Specific Gravity (g/cm ³)	D792	1.44
Water Absorption, 24 hrs (%)	D570	0.05
MECHANICAL		
Tensile Strength (psi)	D638	11,000
Tensile Modulus (psi)	D638	850,000
Tensile Elongation at Break (%)	D638	2
Flexural Strength (psi)	D790	27,500
Flexural Modulus (psi)	D790	1,100,000
Compressive Strength (psi)	D695	26,700
Compressive Modulus (psi)	D695	1,000,000
Hardness, Rockwell	D785	M85
IZOD Notched Impact (ft-lb/in)	D256	0.7
THERMAL		
Coeff. of Thermal Expansion (x 10 ⁻⁵ in./in./°F)	E831	1.7
Heat Deflection Temp (°F / °C) @ 264 psi Under Load	D648	383 / 195
Melting Temp (°F / °C)	D3418	644 / 340
Max Operating Temp (°F / °C)	-	482 / 250
Thermal Conductivity (BTU-in/ft ² -hr-°F)	F433	1.7
Flammability Rating	UL94	V-0
ELECTRICAL		
Dielectric Strength (V/mil) short time, 1/8" thk	D149	-
Dielectric Constant at 1 MHz	D150	-
Dissipation Factor at 1 MHz	D150	-
Surface Resistivity (ohm/sq) at 50% RH	EOS/ESD S11.11	10 ³

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.