



** KETRON® is the registered trademark of

QUADRANT

PRODUCT CAPABILITIES:

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

ADVANTAGES:

- 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
- Excellent Chemical And Hydrolysis Resistance
- Very Good Dimensional Stability
- Inherent Low Flammability And Very Low Levels Of Smoke Evolution During Combustion

PRODUCT COLORS:

- Brownish 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 Typical Values
PHYSICAL		
Specific Gravity (g/cm ³)	D792	1.31
Water Absorption, 24 hrs (%)	D570	0.1
MECHANICAL		
Tensile Strength (psi)	D638	16,000
Tensile Modulus (psi)	D638	630,000
Tensile Elongation at Break (%)	D638	20
Flexural Strength (psi)	D790	25,000
Flexural Modulus (psi)	D790	600,000
Compressive Strength (psi)	D695	20,000
Compressive Modulus (psi)	D695	500,000
Hardness, Rockwell	D785	M100
IZOD Notched Impact (ft-lb/in)	D256	1
THERMAL		
Coeff. of Thermal Expansion (x 10 ⁻⁵ in./in./°F)	E831	2.6
Heat Deflection Temp (°F / °C) @ 264 psi	D648	320 / 160
Melting Temp (°F / °C)	D3418	644 / 340
Max Operating Temp (°F / °C)	-	480 / 249
Thermal Conductivity (BTU-in/ft ² -hr-°F)	F433	1.75
Flammability Rating	UL94	V-0
ELECTRICAL		
Dielectric Strength (V/mil) short time	D149	480
Dielectric Constant at 1 MHz	D150	3.3
Dissipation Factor at 1 MHz	D150	0.003
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.