



PRODUCT CAPABILITIES:

- Rod : 1/8" - 3.25"
- Sheet : 1/16" - 2"

ADVANTAGES:

- Non-Flammability
- High Optical Transparency
- High Chemical Resistance
- Near Zero Moisture Absorption
- Excellent Electrical Properties
- Can Withstand Both High Pressures And Vacuums

PRODUCT COLORS:

- White

APPLICATIONS INCLUDE:

- Cryogenic Application - Super Cold Refrigeration Components
- Valves - Seats, Steams, Seals
- Compressors And Pumps
- Films - Foods Packing, Pharmaceutical Packaging, Optical Recording
- Gasket - Pressure, Diaphragm, Liquid Gauge Seals, Fluid Handling
- Bearing - Sleeve And Thrust

GENERAL PROPERTIES	ASTM or UL Test	KEL-F® PCTFE Typical Values
PHYSICAL		
Specific Gravity (g/cm ³)	D792	2.13
Water Absorption, 24 hrs (%)	D570	<0.01
MECHANICAL		
Tensile Strength (psi)	D638	5,300
Tensile Elongation (%)	D638	150
Flexural Modulus (psi)	D790	10,000
Compressive Strength (psi)	D695	6,000
Hardness, Shore-D	D2240	D90
IZOD Notched Impact (ft-lb/in)	D256	3.0
Coefficient of Friction	D1894	-
Deformation under Load 23°C, 1000psi, 24hr (%)	D621	0.2
THERMAL		
Coeff. of Thermal Expansion (x 10 ⁻⁵ in./in./°F)	D696	-
Heat Deflection Temp (°F / °C) @ 66 psi	D648	259 / 126
Melting Temp (°F / °C)	-	410 / 210
Max Operating Temp (°F / °C)	-	300 / 149
Thermal Conductivity (BTU-in/ft ² -hr-°F)	-	1.45
Flammability Rating	UL94	V-0
ELECTRICAL		
Dielectric Strength (V/mil) short time, 1/8" thk	D149	500
Dielectric Constant at 1 MHz	D150	2.6
Dissipation Factor at 1 MHz	D150	0.02
Volume Resistivity (ohm-cm) at 50% RH	D257	2 x 10 ¹⁸
Arc Resistance (sec)	D495	360

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.