



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-O |
| 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.