



PRODUCT CAPABILITIES:

- Rod : 1/4" - 1.75"
- Sheet : 1/4" - 2"

ADVANTAGES:

- **FEP** Has High Transparency
- FEP Has Long Term Weatherability And Excellent Resistance To Ozone, Sunlight And Weather
- **PFA** Offers Similar Properties To FEP, But Is Considered More Of A Premium Resin
- PFA Is Preferred When Extended Service Is Required In Hostile Environments Involving Chemical, Thermal And Mechanical Stress

PRODUCT COLORS:

- Translucent (Natural)

APPLICATIONS INCLUDE:

- Linings For Pipe, Chemical Processing Roll Covers, Numerous Wire And Cable Application Like Aircraft Wire, Plenum Cable, Fire Alarm Cable And Well Logging Cable.
- Heat-Shrinkable FEP Tubing Is Available.
- FEP Film Is Used As Glazing In Solar Energy Collectors.

GENERAL PROPERTIES	ASTM or UL Test	FEP Typical Values	PFA Typical Values
PHYSICAL			
Specific Gravity (g/cm ³)	D792	2.15	2.15
Water Absorption, 24 hrs (%)	D570	0.004	<0.03
MECHANICAL			
Tensile Strength (psi)	D1708	4,000	4,000
Tensile Elongation at Break (%)	D1708	340	300
Flexural Modulus (psi)	D790	90,000	85,000
Compressive Strength (psi)	D695	2,200	3,500
Compressive Modulus (psi)	D695	–	–
Hardness, Shore D	D2240	D56	D55
IZOD Notched Impact (J/m)	D256	No Break	No Break
Coefficient of Friction	D1894	0.25	0.21
Deformation Under Load 23°C, 1 Kpsi, 24hr (%)	D621	2	2
THERMAL			
Coeff. of Thermal Expansion (x 10 ⁻⁵ in./in./°F)	D696	–	–
Heat Deflection Temp (°F / °C) @ 66 psi	D648	338 / 170	–
Melting Temp (°F / °C)	D3418	567 / 264	581 / 305
Max Operating Temp (°F / °C)	–	399 / 204	500 / 260
Thermal Conductivity (W/m°C)	–	0.2	0.19
Flammability Rating	UL94	V-O	V-O
ELECTRICAL			
Dielectric Strength (V/mil)	D149	2,000	2,000
Dielectric Constant at 1 MHz	D1531	2.06	2.03
Dissipation Factor at 1 MHz	D1531	0.0003	0.0001
Arc Resistance (sec)	D495	165	>180
Volume Resistivity (ohm-cm) at 50% RH	D257	10 ¹⁷	10 ¹⁸

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.