

TYPICAL PROPERTIES of SELECTED FLUOROPOLYMERS				
ASTM or UL test	Property	PTFE (unfilled)	FEP	PFA
PHYSICAL				
D792	Density (lb/in ³) (g/cm ³)	0.078 2.16	0.078 2.15	0.078 2.15
D570	Water Absorption, 24 hrs (%)	< 0.01	< 0.01	< 0.03
MECHANICAL				
D638	Tensile Strength (psi)	3,900	3,400	3,600
D638	Tensile Elongation at Break (%)	300	325	300
D790	Flexural Strength (psi)	No break	No break	No break
D2176	Folding Endurance (cycles)	> 10 ⁶	5-80 x 10 ³	50-500 x 10 ³
D790	Flexural Modulus (psi)	72,000	85,000	85,000
D785	Hardness, Shore D	D50	D56	D60
D256	IZOD Notched Impact (ft-lb/in)	3.5	-	-
THERMAL				
D3418	Melting Temp (°F / °C)	635 / 335	500 / 260	582 / 305
-	Max Operating Temp (°F / °C)	500 / 260	400 / 204	500 / 260
UL94	Flammability Rating	V-0	V-0	V-0
ELECTRICAL				
D150	Dielectric Constant at 1 MHz	2.1	2.1	2.1
D150	Dissipation Factor at 1 MHz	< 0.0002	0.0007	0.0001
D495	Arc Resistance (sec)	< 300	< 300	< 180
D257	Volume Resistivity (ohm-cm) at 50% RH	> 10 ¹⁸	> 10 ¹⁸	> 10 ¹⁸

NOTE: The information contained herein are typical values intended for reference and comparison purposes only. They should NOT be used as a basis for design specifications or quality control. Contact us for manufacturers' complete material property datasheets.

All values at 73°F (23°C) unless otherwise noted.