

TYPICAL PROPERTIES of PVDF

ASTM or UL test	Property	PVDF
PHYSICAL		
D792	Density (lb/in ³) (g/cm ³)	0.064 1.77
D570	Water Absorption, 24 hrs (%)	0.03
MECHANICAL		
D638	Tensile Strength (psi)	6,300
D638	Tensile Modulus (psi)	290,000
D638	Tensile Elongation at Break (%)	50
D790	Flexural Strength (psi)	9,700
D790	Flexural Modulus (psi)	290,000
D695	Compressive Strength (psi)	9,000
D695	Compressive Modulus (psi)	-
D2240	Hardness, Shore	D75
D256	IZOD Notched Impact (ft-lb/in)	3.0
THERMAL		
D696	Coefficient of Linear Thermal Expansion (x 10 ⁻⁵ in./in./°F)	6.6
D648	Heat Deflection Temp (°F / °C) at 264 psi	230 / 110
D3418	Melting Temp (°F / °C)	332 / 166
-	Max Operating Temp (°F / °C)	275 / 130
C177	Thermal Conductivity (BTU-in/ft ² -hr-°F) (x 10 ⁻⁴ cal/cm-sec-°C)	1.2 4.1
UL94	Flammability Rating	V-O
ELECTRICAL		
D149	Dielectric Strength (V/mil) short time, 1/8" thick	1700
D150	Dielectric Constant at 1 MHz	8.5
D150	Dissipation Factor at 1 MHz	0.05
D257	Volume Resistivity (ohm-cm)at 50% RH	1.5 x 10 ¹⁵