

Westlake Plastics PVDF Film Made from KYNAR® Polyvinylidene Fluoride Resin

Category : Polymer , Film , Thermoplastic , Fluoropolymer , PVDF , Polyvinylidene fluoride (PVDF), Molded/Extruded

Material Notes:

Excellent chemical resistance. Stable to UV and the effects of weather. Low NBS smoke generation and superior LOI. Excellent transmittance of solar energy. Excellent dielectric strength. High heat resistance. Excellent physical and mechanical properties for a fluoropolymer. FDA compliant. Kynar® is a trade name of Elf Atochem North America. Information provided by Westlake Plastics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Westlake-Plastics-PVDF-Film-Made-from-KYNAR-Polyvinylidene-Fluoride-Resin.php

Physical Properties	Metric	English	Comments
Density	1.78 g/cc	0.0643 lb/in ³	ASTM D792
Water Absorption	0.010 %	0.010 %	ASTM D570; 24 hrs.

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	52.1 MPa	7550 psi	ASTM D882
Elongation at Break	160 %	160 %	ASTM D882
Tensile Modulus	1.72 GPa	250 ksi	ASTM D882
Flexural Modulus	1.79 GPa	260 ksi	ASTM D790
Tear Strength	284 kN/m	1620 pli	ASTM D1004

Thermal Properties	Metric	English	Comments
Melting Point	165 - 170 °C	329 - 338 °F	DSC
Maximum Service Temperature, Air	129 °C	265 °F	Continuous Use
Deflection Temperature at 1.8 MPa (264 psi)	118 °C	244 °F	ASTM D648
Flammability, UL94	V-0	V-0	VTM-0
Oxygen Index	43 %	43 %	ASTM D2863

Optical Properties	Metric	English	Comments
Refractive Index	1.42	1.42	

Electrical Properties	Metric	English	Comments
Surface Resistance	>= 1.00e+16 ohm	>= 1.00e+16 ohm	ASTM D257

Electrical Properties	Metric 0.46	English 0.46	Comments
Dielectric Constant	@Frequency 1000 Hz	@Frequency 1000 Hz	ASTM D150
Dielectric Strength	76.0 kV/mm @Thickness 0.0762 mm	1930 kV/in @Thickness 0.00300 in	ASTM D149
Dissipation Factor	0.0050 - 0.019 @Frequency 1000 Hz	0.0050 - 0.019 @Frequency 1000 Hz	ASTM D150

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