

Westlake Plastics Kynar® 2850 PVDF Copolymer

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

Material Notes:

Manufactured from Kynar® polyvinylidene fluoride resin. This material offers excellent corrosion and chemical resistance at both ambient and elevated temperatures, PVDF is also inherently UV stable, mechanically tough, abrasion and flame resistant. 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-Kynar-2850-PVDF-Copolymer.php

Physical Properties	Metric	English	Comments
Density	1.78 g/cc	0.0643 lb/in ³	ASTM D792
Water Absorption	0.040 %	0.040 %	ASTM D570; 24 hrs.

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	34.5 MPa	5000 psi	ASTM D638
Elongation at Break	350 %	350 %	ASTM D638
Tensile Modulus	0.862 GPa	125 ksi	ASTM D638
Flexural Yield Strength	46.9 MPa	6800 psi	ASTM D790
Flexural Modulus	1.17 GPa	170 ksi	ASTM D790
Izod Impact, Notched	4.27 J/cm	8.00 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	140 µm/m-°C	78.0 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Melting Point	157 °C	315 °F	ASTM D4591
Maximum Service Temperature, Air	116 °C	240 °F	Continuous Use
Deflection Temperature at 1.8 MPa (264 psi)	51.7 °C	125 °F	ASTM D648
Flammability, UL94	V-0	V-0	
Oxygen Index	42 %	42 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Dielectric Constant	7.5	7.5	ASTM D150

Electrical Properties	@Frequency 1000 Hz Metric	@Frequency 1000 Hz English	Comments
Dielectric Strength	10.6 kV/mm	270 kV/in	ASTM D149

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