

Westlake Plastics Kynar® 1000HD PVDF Homopolymer

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 1000 is a whiter grade of PVDF than 740. 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-1000HD-PVDF-Homopolymer.php

Physical Properties	Metric	English	Comments
Density	1.78 g/cc	0.0643 lb/in ³	ASTM D792
Water Absorption	0.030 %	0.030 %	ASTM D570; 24 hrs.

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	48.3 MPa	7000 psi	ASTM D638
Elongation at Break	100 %	100 %	ASTM D638
Tensile Modulus	1.72 GPa	250 ksi	ASTM D638
Flexural Yield Strength	24.1 MPa	3500 psi	ASTM D790
Flexural Modulus	2.00 GPa	290 ksi	ASTM D790
Izod Impact, Notched	1.60 J/cm	3.00 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	117 µm/m-°C @Temperature 20.0 °C	65.0 µin/in-°F @Temperature 68.0 °F	ASTM D696
Melting Point	168 °C	335 °F	ASTM D4591
Maximum Service Temperature, Air	138 °C	280 °F	Continuous Use
Deflection Temperature at 1.8 MPa (264 psi)	110 °C	230 °F	ASTM D648
Flammability, UL94	V-0	V-0	
Oxygen Index	43 %	43 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Dielectric Constant	8.5	8.5	ASTM D150

Electrical Properties	@Frequency 1000 Hz Metric	@Frequency 1000 Hz English	Comments
Dielectric Strength	10.2 kV/mm	260 kV/in	ASTM D149

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