Westlake Kynar® 1000 HD

Polyvinylidene Fluoride

Westlake Plastics Company

Message:

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.

Applications Include:

Chemical Process/Storage

Fluid handling

Semiconductor equipment

Fire-safe componentry

DI Water Systems

Advantages of Kynar:

High purity

Flame resistant

Easy to machine

Excellent weatherability

Resin meets the requirements of FDA, USDA, USPXX Class VI, 3A, UL, V-0, FM 4910

General Information			
Features	Flame Retardant		
	Good Abrasion Resistance		
	Good Chemical Resistance		
	Good Corrosion Resistance		
	Good Toughness		
	Good UV Resistance		
	Good Weather Resistance		
	High Purity		
	Machinable		
Agency Ratings	FDA Unspecified Rating		
	FM 4910		
	UL 2360, Class 1		
	USDA Unspecified Approval		
	USP Class VI		
Appearance	White		
Forms	Film		
	Rod		
	Sheet		
	Tubing		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.78	g/cm³	ASTM D792

Water Absorption (24 hr)	0.030	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	77		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1720	MPa	ASTM D638
Tensile Strength (Yield)	48.3	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	7.0 to 13	%	
Break	100	%	
Flexural Modulus	2000	MPa	ASTM D790
Flexural Strength	55.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	160	J/m	ASTM D256
Unnotched Izod Impact	1100 to 4300	J/m	ASTM D256
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Thermal	Nominal Value	Unit	Test Method
·		·	Test Method ASTM D648
Thermal		·	
Thermal Deflection Temperature Under Load	Nominal Value	Unit	
Thermal Deflection Temperature Under Load 0.45 MPa, Unannealed	Nominal Value 125 to 140	Unit °C	
Thermal Deflection Temperature Under Load 0.45 MPa, Unannealed 1.8 MPa, Unannealed	Nominal Value 125 to 140 110	Unit °C °C	
Thermal Deflection Temperature Under Load 0.45 MPa, Unannealed 1.8 MPa, Unannealed Continuous Use Temperature	Nominal Value 125 to 140 110 138	Unit °C °C °C	ASTM D648
Thermal Deflection Temperature Under Load 0.45 MPa, Unannealed 1.8 MPa, Unannealed Continuous Use Temperature Melting Temperature	Nominal Value 125 to 140 110 138 168	Unit °C °C °C °C	ASTM D648 ASTM D4591
Thermal Deflection Temperature Under Load 0.45 MPa, Unannealed 1.8 MPa, Unannealed Continuous Use Temperature Melting Temperature CLTE - Flow	Nominal Value 125 to 140 110 138 168 1.2E-4	°C °C °C °C cm/cm/°C	ASTM D648 ASTM D4591 ASTM D696
Thermal Deflection Temperature Under Load 0.45 MPa, Unannealed 1.8 MPa, Unannealed Continuous Use Temperature Melting Temperature CLTE - Flow Electrical	Nominal Value 125 to 140 110 138 168 1.2E-4 Nominal Value	°C °C °C °C cm/cm/°C	ASTM D648 ASTM D4591 ASTM D696 Test Method
Thermal Deflection Temperature Under Load 0.45 MPa, Unannealed 1.8 MPa, Unannealed Continuous Use Temperature Melting Temperature CLTE - Flow Electrical Volume Resistivity	Nominal Value 125 to 140 110 138 168 1.2E-4 Nominal Value 2.0E+14	C °C °C °C cm/cm/°C Unit ohms·cm	ASTM D648 ASTM D4591 ASTM D696 Test Method ASTM D257
Thermal Deflection Temperature Under Load 0.45 MPa, Unannealed 1.8 MPa, Unannealed Continuous Use Temperature Melting Temperature CLTE - Flow Electrical Volume Resistivity Dielectric Strength (0.127 mm)	Nominal Value 125 to 140 110 138 168 1.2E-4 Nominal Value 2.0E+14 63	C °C °C °C cm/cm/°C Unit ohms·cm	ASTM D648 ASTM D4591 ASTM D696 Test Method ASTM D257 ASTM D149
Thermal Deflection Temperature Under Load 0.45 MPa, Unannealed 1.8 MPa, Unannealed Continuous Use Temperature Melting Temperature CLTE - Flow Electrical Volume Resistivity Dielectric Strength (0.127 mm) Dielectric Constant (1 kHz)	Nominal Value 125 to 140 110 138 168 1.2E-4 Nominal Value 2.0E+14 63 8.50	"C "C "C "C "C "C Unit ohms·cm kV/mm	ASTM D648 ASTM D4591 ASTM D696 Test Method ASTM D257 ASTM D149 ASTM D150

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