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
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	125 to 140	°C	
1.8 MPa, Unannealed	110	°C	
Continuous Use Temperature	138	°C	
Melting Temperature	168	°C	ASTM D4591
CLTE - Flow	1.2E-4	cm/cm/°C	ASTM D696
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	2.0E+14	ohms·cm	ASTM D257
Dielectric Strength (0.127 mm)	63	kV/mm	ASTM D149
Dielectric Constant (1 kHz)	8.50		ASTM D150
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating	V-0		UL 94
Oxygen Index	43	%	ASTM D2863

Recommended distributors for this material

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