

Westlake Kynar® 740

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 2
	USDA Unspecified Approval
	USP Class VI
Appearance	Beige
	Colors Available
Forms	Film
	Rod
	Sheet
	Tubing

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.78	g/cm ³	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

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