

Westlake Kynar® 2850

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		
	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)	0.040	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	70		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	862	MPa	ASTM D638
Tensile Strength (Yield)	34.5	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield	10 to 20	%	
Break	350	%	
Flexural Modulus	1170	MPa	ASTM D790
Flexural Strength	24.1	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	430	J/m	ASTM D256
Unnotched Izod Impact	No Break		ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	114	°C	
1.8 MPa, Unannealed	51.7	°C	
Continuous Use Temperature	116	°C	
Melting Temperature	157	°C	ASTM D4591
CLTE - Flow	1.4E-4	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	2.0E+14	ohms · cm	ASTM D257
Dielectric Constant (1 kHz)	7.50		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Oxygen Index	42	%	ASTM D2863

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