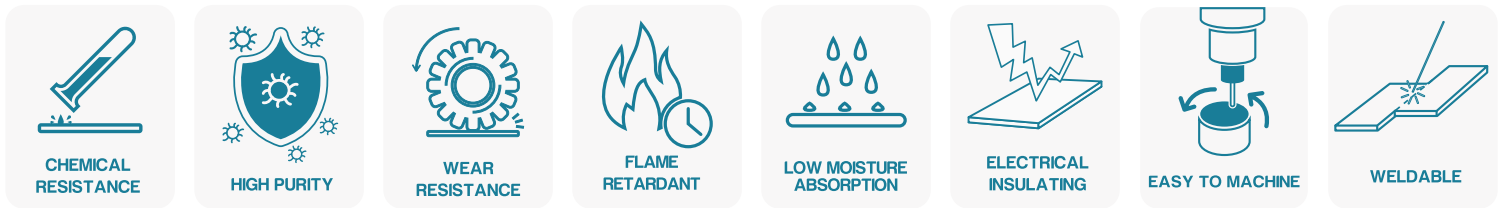


# PVDF FLUOROLUX®

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Fluorolux Polyvinylidene Fluoride (PVDF) is a material which offers excellent corrosion and chemical resistance at both ambient and elevated temperatures. PVDF is also inherently UV stable, mechanically tough, and abrasion, flame, and smoke resistant.



Property	Units	Test Standard	Kynar 740	Kynar 2850
<b>Mechanical</b>				
Flexural Modulus	psi	ASTM D790	200,000-335,000	150,000-180,000
Flexural Strength	psi	ASTM D790	8,500-11,000	3,000-5,000
Hardness-Shore D	D Scale	ASTM D2240	D76-D80	D70-D75
Izod Impact Strength	ft-lbs/in	ASTM D256	1.8-4	2-8
	Un-Notched	ASTM D256	20.0-80.0	No Break
Tensile Elongation	@break	ASTM D638	20-100	200
	@yield	ASTM D638	7.0-13.0	10.0-20.0
Tensile Modulus	psi	ASTM D638	200,000-335,000	150,000-220,000
Tensile Strength @yield	psi	ASTM D638	6,500-8,000	4,500-6,000
<b>Thermal</b>				
Coefficient of Thermal Expansion	in/in/°F	ASTM D696	6.6x10 <sup>-5</sup>	7.0x10 <sup>-3</sup>
Continuous Use Temperature	°F	—	280	240
Flammability Rating	—	UL94	V-0	V-0
	—	UL2360	Class II	—
	—	FM4910	Listed	Listed
Heat Deflection Temperature	@66 psi	ASTM D648	257-284	140-167
	@264 psi	ASTM D648	221-239	100-131
Limiting Oxygen Index	%	ASTM D2868	75	43
Melt Temperature	°F	ASTM D4591	329-342	311-320
<b>Electrical</b>				
Dielectric Constant @1kHz	—	ASTM D150	4.5-9.5	3.5-10.2
Dielectric Strength @5mil	V/mil	ASTM D149	1,600	—
Volume Resistivity	ohm-cm	ASTM D257	2.0x10 <sup>14</sup>	2.0x10 <sup>14</sup>
<b>Other</b>				
Specific Gravity	—	ASTM D792	1.78	1.78
Water Absorption @24 hours	%	ASTM D570	0.03	0.04

## Applications Include:

- Semiconductor Packaging, Process and Testing Components
- Semiconductor Wet Processing Components
- Chemical Process/Storage tanks
- Chemical tank liners
- Corrosive Fluid handling
- Fire-safe componentry
- DI Water Systems
- Electrical Insulating Components
- Radiation Barriers
- Metal Replacement

## Manufacturing Capabilities:



## Colors:

Natural Beige

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Phone : 1.610.459.1000  
Phone : 1.800.000.1700  
Fax : 610.459.1084

490 West Lenni road  
Lenni, PA 19052  
U.S.A

Email : info@westlakeplastics.com

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WEBSITE



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