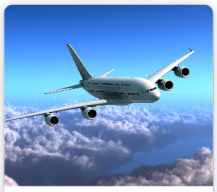
P: 1.800.999.1700 | F: 610.459.1084 | info@westlakeplastics.com | 490 West Lenni Road, Lenni, PA 19052 U.S.A.

Kynar®

Kynar® Polyvinylidene Fluoride (PVDF) is a semi-crystalline, high purity thermoplastic fluoropolymer that offers excellent corrosion and chemical resistance at both ambient and elevated temperatures. PVDF is one of the most rigid and abrasion resistant of the melt-processible fluoropolymers. With service temperatures up to 150°C, PVDF is also inherently UV stable, mechanically tough, and abrasion, flame, and smoke resistant.

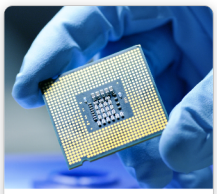
INDUSTRY



Aerospace & Defense

Chemical Process

Life Sciences



Semiconductor and ESD

COLORS AVAILABLE

Black Natural Red

ATTRIBUTES

- Flammability Resistance
- Chemical Resistance
- Wear Resistance
- Dielectric Properties
- Heat Resistant

SHAPES

- Compression Sheet
- Extruded Sheet
- Extruded Film
- Extruded Rod

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TYPICAL PROPERTIES

PROPERTY	TEST STANDARD	ENGLISH UNITS	METRIC UNITS
Mechanical			
Tensile Strength @ Yield	D638	6.5-8.0 kpsi	45-55 Mpa
Tensile Strength @ Break	D638	5.0-8.0 kpsi	35-55 Mpa
Tensile Elongation @ Yield	D638	5-10%	5-10%
Tensile Elongation @ Break	D638	20-100%	20-100%
Tensile Modulus	D638	200-335 kpsi	1400-2300 Mpa
Flexural Strength	D790	8.5-11.0 psi	59-76 Mpa
Flexural Modulus	D790	200-335 kpsi	1400-2300 Mpa
Izod Impact Resistance - Notched	D256	1.8-4.0 ft-lb/in	0.096-0.210 kJ/m
Izod Impact Resistance - Unnotched	D256	20-80 ft-lb/in	1.1-4.3 kJ/m
Specific Gravity	D792	1.78	1.78
Thermal			
HDT @ 64psi	D648	257-284°F	125-140°C
HDT @ 264 psi	D648	221-239°F	105-115°C
Physical			
Moisture Absorption	D570	0.02%	0.02%

*Data above is based on testing of injection molded test specimens

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PRODUCT SHAPES & DIMENSIONS

Rods: 48"L (122cm)

2" (50.8mm)	2.25" (57.15mm)	2.50" (63.5mm)	2.75" (69.85mm)	3" (76.2mm)	3.25" (82.55mm)
3.50" (88.9mm)	3.75" (95.25mm)	4" (101.6mm)	7" (177.8mm)		

Rods: 96"L (244cm)

0.5" (12.7mm)	0.75" (19.05mm)	1" (25.4mm)	1.25" (31.75mm)	1.50" (38.1mm)	1.75" (44.45mm)
2" (50.8mm)	2.25" (57.15mm)				

Compression Sheets: 24"W x 48"L (61cm x 122cm)

0.25" (6.35mm)	0.375" (9.53mm)	0.50" (12.7mm)	0.750" (19.05mm)	1" (25.4mm)	1.25" (31.75mm)
1.50" (38.1mm)	1.75" (44.45mm)	2" (50.8mm)	2.25" (57.15mm)	2.50" (63.5mm)	2.75" (69.85mm)
3" (76.2mm)	3.25" (82.55mm)	3.50" (88.9mm)	3.75" (95.25mm)	4" (101.6mm)	

Compression Sheets: 48"W x 96"L (122cm x 244cm)

0.25" (6.35mm)	0.375" (9.53mm)	0.50" (12.7mm)	0.75" (19.05mm)	1" (25.4mm)	1.25" (31.75mm)
1.50" (38.1mm)	1.75" (44.45mm)	2" (50.8mm)	2.25" (57.15mm)	2.50" (63.5mm)	2.75" (69.85mm)
3" (76.2mm)	3.25" (82.55mm)	3.50" (88.9mm)	3.75" (95.25mm)	4" (101.6mm)	

Compression Sheets: 48"W x 120"L (122cm x 305cm)

0.250" (6.35mm)	0.375" (9.53mm)	0.50" (12.7mm)	0.750" (19.05mm)	1" (25.4mm)	1.25" (31.75mm)
1.50" (38.1mm)	1.75" (44.45mm)	2" (50.8mm)	2.25" (57.15mm)	2.50" (63.5mm)	2.75" (69.85mm)
3" (76.2mm)	3.25" (82.55mm)	3.50" (88.9mm)	3.75" (95.25mm)	4" (101.6mm)	

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Kynar®

Compression Sheets: 60"W x 120"L (152cm x 305cm)

0.25" (6.35mm)	0.375" (9.53mm)	0.5" (12.7mm)	0.75" (19.05mm)	1" (25.4mm)	1.25" (31.75mm)
1.50" (38.1mm)	1.75" (44.45mm)	2" (50.8mm)	2.25" (57.15mm)	2.50" (63.5mm)	2.75" (69.85mm)
3" (76.2mm)	3.25" (82.55mm)	3.50" (88.9mm)	3.75" (95.25mm)	4" (101.6mm)	

Extruded Sheets: 48"W x 96"L (122cm x 244cm)

0.03" (0.76mm)	0.035" (0.89mm)	0.06" (1.52mm)	0.062" (1.57mm)	0.08" (2.03mm)	0.09" (2.29mm)
0.095" (2.41mm)	0.125" (3.18mm)				

Extruded Films: 26"W (66cm)

0.002" (0.05mm)	0.005" (0.13mm)	0.010" (0.25mm)	0.020" (0.51mm)	0.025" (0.64mm)

LAST REVISED: 08/28/2025

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