

# Fluorolux™



Fluorolux™ 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.

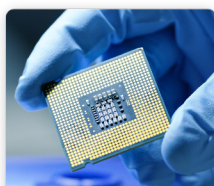
## INDUSTRY



Aerospace



Chemical Process



Semiconductor and  
ESD

## COLORS AVAILABLE



Natural

## ATTRIBUTES



Flammability Resistance



Heat Resistant



Dielectric Properties



Chemical Resistance



## SHAPES

Compression Sheet



Extruded Sheet



Extruded Rod



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## TYPICAL PROPERTIES

PROPERTY	TEST STANDARD	ENGLISH UNITS	METRIC UNITS
<b>Mechanical</b>			
Tensile Elongation @ Break	D638	>50%	>50%
Tensile Elongation @ Yield	D638	5% - 10%	5% - 10%
Tensile Modulus	D638	203 - 334 kpsi	1400 - 2300 MPa
Tensile Strength @ Break	D638	4 - 7 kpsi	30 - 50 MPa
Tensile Strength @ Yield	D638	6 - 8 kpsi	40 - 55 MPa
<b>Thermal</b>			
HDT @ 264 psi	D648	221°F	105°C
<b>Physical</b>			
Specific Gravity	D792	1.76 - 1.79	1.76 - 1.79
Hardness Shore D	D2240	73 - 80	73 - 80
<b>Other</b>			
Water Absorption	D570	<0.04%	<0.04%

\*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)	2.5" (63.5mm)	2.75" (69.85mm)	3" (76.2mm)	3.25" (82.55mm)
3.5" (88.9mm)	3.75" (95.25mm)	4" (101.6mm)	7" (177.8mm)		

### Rods: 96"L (244cm)

.5" (12.7mm)	.75" (19.05mm)	1" (25.4mm)	1.25" (31.75mm)	1.5" (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)	.375" (9.53mm)	.5" (12.7mm)	.75" (19.05mm)	1" (25.4mm)	1.25" (31.75mm)
1.5" (38.1mm)	1.75" (44.45mm)	2" (50.8mm)	2.25" (57.15mm)	2.5" (63.5mm)	2.75" (69.85mm)
3" (76.2mm)	3.25" (82.55mm)	3.5" (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)	.5" (12.7mm)	.75" (19.05mm)	1" (25.4mm)	1.25" (31.75mm)
1.5" (38.1mm)	1.75" (44.45mm)	2" (50.8mm)	2.25" (57.15mm)	2.5" (63.5mm)	2.75" (69.85mm)
3" (76.2mm)	3.25" (82.55mm)	3.5" (88.9mm)	3.75" (95.25mm)	4" (101.6mm)	

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

.25" (6.35mm)	.375" (9.53mm)	.5" (12.7mm)	.75" (19.05mm)	1" (25.4mm)	1.25" (31.75mm)
1.5" (38.1mm)	1.75" (44.45mm)	2" (50.8mm)	2.25" (57.15mm)	2.5" (63.5mm)	2.75" (69.85mm)
3" (76.2mm)	3.25" (82.55mm)	3.5" (88.9mm)	3.75" (95.25mm)	4" (101.6mm)	

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

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.03" (0.76mm)	.035" (0.89mm)	.06" (1.52mm)	.062" (1.57mm)	.08" (2.03mm)	.09" (2.29mm)
.095" (2.41mm)	.125" (3.18mm)				

LAST REVISED: 09/05/2023

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