



LAM PVDF- K | KYNAR[®] 740 & 2850 resin
Un-backed, Polyester-backed(F) and PAN-backed(P) Sheet

Lamcorr offers extruded PVDF as standard sheets and in fabric-backed rolls and sheets in both copolymer Kynar[®] 2850 (flex) and homopolymer 740 resins. Like ECTFE, PVDF provides a cost effective solution for mid-range service temperatures. Copolymer sees more frequent use in applications that require flexibility and thermoforming. Homopolymer provides more structural integrity and permeation resistance. Both PVDF grades, though versatile in corrosion protection, do not lend themselves to strong alkaline environments.



Typical properties:

	PROPERTY	ASTM SPEC	UNIT	Homopolymer	Copolymer
	Specific Gravity	D 792	****	1.78	1.78
Environment	Water Absorption	D570	%	<0.03	<0.05
	Abrasion Resistance	Taber CS 17	mg/1000	7.5	7
	Oxygen Index	D2863	%	44	43
	Flammability	UL 94	****	VO	VO
		FM 4910	****	YES	YES
Coefficient of Friction	C1894	Static	0.20	0.26	
	C1894	Dynamic	0.14	0.19	
Mechanical	Tensile Strength (yield)	D1708, D638	psi	6,000	5,000
	Elongation (break)	D1708, D638	%	100	300
	Flexural Modulus	D790 @ 23 C	psi	195,000	170,000
	Notched Izod Impact	D256 @ 23 C	ft-lb/in.	3	5
	Shore D Hardness	D2240	***	78	72
Thermal	Continuous Service Temperature	Maximum	°C	127	123
			°F	261	253
	Melting Point	D3418	°C	170	158
		D3418	°F	338	316
	Vicat Softening Point	D1525	°C	****	****
		D1525	°F	****	****
	Coefficient of Expansion	E831 TMA	in/in/°F (10 ⁻⁵)	7.2	8.5
	Deflection Temp (66psi)	D648	°C	140	124
		D648	°F	284	255
	Deflection Temp (264psi)	D648	°C	118	****
D648		°F	244	****	
				LAM PVDF - K homopolymer	LAM PVDF - K copolymer

* Continuous Service Temperature based upon "non-chemical Dry Usage".
 * Table data reflects ASTM based average typical vendor data.
 * Data meant as general guidelines only.
 * Specific applications require additional testing by the buyer.
 * All properties based on standard unbacked product tests only

ADVANTAGES

- Good Corrosive Resistance
- Average Heat Resistance
- Smooth Surface Characteristics
- Low Co-efficient of Friction

PROVEN APPLICATIONS

- Highly corrosive acid storage
- Semicon wet-bench (FM 4910)
- Tank & Reactor Vessels
- Pulp & Paper Production
- Mild Alkaline Systems

STANDARD SIZES

- Roll – 48" x 600" (50')
- Sheets – 48" x 96"
- Gauge .060, .090, .118, .157"

STANDARD COLORS

- Natural – industry standard

CUSTOM SIZES, COLORS

- Contact inside sales

FABRIC BACKING

- LAM PVDF-F (F=polyester)
- LAM PVDF-P (P=PAN)

WELD MATERIALS

- 1/8" & 5/32" Round Rod
- 5/8" Flat Cap Strip

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