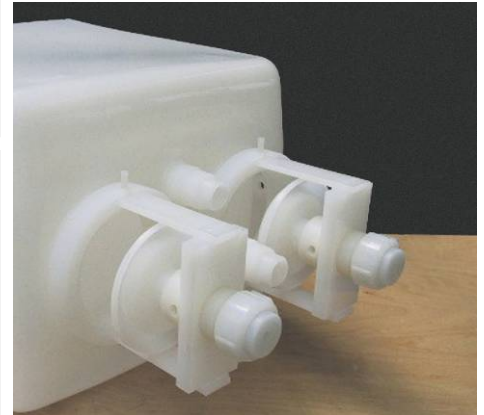




LAM PVDF-S | Solef® PVDF Resin

Standard Sheet Based On Polyvinylidene Fluoride Resin



LAM PVDF-S sheet manufactured from Solvay's Solef® polyvinylidene fluoride resin offers corrosion and chemical resistance for a variety of storage and process applications at both ambient and elevated temperatures. With its FM 4910 listing, the material sees widespread use in semiconductor wet bench process systems using concentrated acids and ultra-pure water. Other notable properties include inherent UV stability, toughness and abrasion resistance. LAM PVDF-S can be welded to LAM CRP-1, a PVC based FM 4910 listed sheet, using Lamcorr's proprietary JSR welding rod.

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
	Coefficient of Friction	FM 4910	****	YES	YES
		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	222
		D3418	°F	338	434
	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	****	

* 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

LAM PVDF - S
homopolymer

LAM PVDF - S
copolymer

ADVANTAGES:

- High purity
- Temperature resistance
- FM 4910 and UL 94 V-0 listed
- UV Resistant
- Smooth, low friction surface
- Easy to fabricate and weld

PROVEN APPLICATIONS:

- Semicon wet bench tanks and components
- DI water systems
- Fire-safe components
- Chemical processing, storage

STANDARD SIZES:

- Extruded sheet: 48" x 96"
- Gauge: .090" to 1.0"

STANDARD COLORS

- Natural only

CUSTOM SIZES, COLORS

- Contact inside sales

WELD MATERIALS

- 1/8", 5/32" round rod
- 3/8"; 5/8" cap strip

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