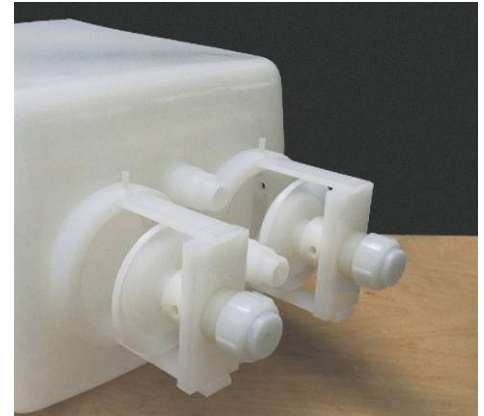




# LAM PVDF – S | FM 4910 Listed

## Polyvinylidene Fluoride Sheet Based On Solef® Resin

LAM PVDF-S sheet is manufactured from Solvay's Solef® polyvinylidene fluoride resin. FM 4910 Listed and suitable for wetted parts in semiconductor process applications, it sees widespread use in systems using concentrated acids and ultra-pure water. The material offers corrosion and chemical resistance at both ambient and elevated temperatures. It is inherently UV stable, mechanically tough and abrasion resistant. LAM PVDF-S can be welded to LAM CRP-1, a PVC based FM 4910 rated sheet, using our proprietary JSR welding rod.



### Typical Properties:

	PROPERTY	ASTM SPEC	UNIT	Ho PVDF	Co PVDF
	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 <sup>-5</sup> )	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
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### 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

**Disclaimer:** The information contained herein is intended as a general guideline only. Application conditions and environments vary widely, and each user is responsible for determining suitability for use of Laminations Inc.'s materials in all intended applications. Laminations, Inc. makes NO EXPRESSED OR IMPLIED WARRANTIES in regards to suitability for use of any of its materials in specific applications. Any direct or consequential damages resulting from the improper use of these materials are the responsibility of the user. Laminations Inc. limits its liability to the replacement value of sheet materials found to be defective as manufactured by Laminations. Laminations will not be liable for improper use of its materials in regards to patent infringements, nor should any of our information be construed as an offer of indemnity for patent infringement