LAMCORR | Division of Laminations, Inc.
HIGH PERFORMANCE CORROSION RESISTANT PLASTIC SHEET

PRODUCT PROFILE

LAM CRP-1 | FM 4910 Listed

Enhanced Performance PVC-Based Sheet

LAM CRP-1's proprietary formulation provides an FM 4910 rated PVC-based sheet with improved surface gloss and easier weldability compared to PVC-C. Its temperature resistance exceeds that of standard PVC compounds and withstands the requirements of typical wet bench cabinetry and enclosures. LAM CRP-1's high gloss, and its consistent surface and color quality also afford exceptional long-lasting clean-room aesthetics over PVC-C based sheet materials. Lamcorr offers its unique JSR rod to weld LAM CRP-1 to LAM PVDF sheet and components.

Typical Properties:

	PROPERTY	ASTM SPEC	UNIT	CRP - 1
	Specific Gravity	D 792	****	1.48
Environment	Water Absorption	D570	%	0.10
	Abrasion Resistance	Taber CS 17	mg/1000	****
	Oxygen Index	D2863	%	****
	Flammability	UL 94	****	VO
		FM 4910	****	YES
	Coefficient of Friction	C1894	Static	****
		C1894	Dynamic	****
Mechanical	Tensile Strength (yield)	D1708, D638	psi	7,500
	Elongation (break)	D1708, D638	%	****
	Flexural Modulus	D790 @ 23 C	psi	485,000
	Notched Izod Impact	D256 @ 23 C	ft-lb/in.	3
	Shore D Hardness	D2240	***	84
Thermal	Continuous Service Temperature	Maximum	°C	72
			°F	162
	Melting Point	D3418	°C	****
		D3418	°F	****
	Vicat Softening Point	D1525	°C	92
		D1525	°F	198
	Coefficient of Expansion	E831 TMA	in/in/°F (10 ^-5)	5.8
	Deflection Temp (66psi)	D648	°C	74
	(66psi)	D648	°F	165
	Deflection Temp (264psi)	D648	°C	72
	(264psi)	D648	°F	162

* 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

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ADVANTAGES:

- Exceptional surface gloss and consistent appearance
- Color consistency
- Resists acid, alkaline, UPW contact in wet bench cabinetry
- FM 4910 and UL 94 V-0 listed
- Thermoforms, welds easily
- Rigid, impact resistant
- *Welds to PVDF using LAM JSR rod*

PROVEN APPLICATIONS:

- Semicon process enclosures
- Rinse modules
- Wafer transfer interfaces
- Dry tool enclosures, components
- Electrical cabinets

STANDARD SIZES:

- Sheet: 48" x 96"
- Extruded gauge: .250" to 1.0"
- Pressed gauge: 1.0" – 4.0"

STANDARD COLORS:

- High gloss white

CUSTOM SIZES, COLORS:

- Contact inside sales

WELD MATERIALS:

- 1/8", 5/32" round rod

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