



# LAM HDPE | Standard HDPE resin

## Un-backed and Polyester Fabric-Backed Sheet and Rolls

Lamcorr's cost-effective HDPE(F) fabric-backed rolls and sheets are used extensively in near ambient service temperatures for lining laminate tank and pipe applications. HDPE readily welds and offers all-around chemical resistance. Its smooth surface will not corrode or tuberculate like iron piping. The material resists cracking from routine internal and external pressure variations encountered in typical lining applications such as natural gas, water and sewage installations.



### Typical properties:

	PROPERTY	ASTM SPEC	UNIT	HDPE
	Specific Gravity	D 792	****	0.96
Environment	Water Absorption	D570	%	<0.01
	Abrasion Resistance	Taber CS 17	mg/1000	****
	Oxygen Index	D2863	%	****
	Flammability	UL 94	****	N.R.
		FM 4910	****	NO
Coefficient of Friction	C1894	Static	0.2	
	C1894	Dynamic	0.2	
Mechanical	Tensile Strength (yield)	D1708, D638	psi	3600
	Elongation (break)	D1708, D638	%	700
	Flexural Modulus	D790 @ 23 C	psi	175000
	Notched Izod Impact	D256 @ 23 C	ft-lb/in.	3
	Shore D Hardness	D2240	***	68
Thermal	Continuous Service Temperature	Maximum	°C	76
			°F	170
	Melting Point	D3418	°C	131
		D3418	°F	267
	Vicat Softening Point	D1525	°C	124
		D1525	°F	255
	Coefficient of Expansion	E831 TMA	in/in/°F (10 <sup>-5</sup> )	6.7
	Deflection Temp (66psi)	D648	°C	73
		D648	°F	163
	Deflection Temp (264psi)	D648	°C	43
D648		°F	110	

\* 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 HDPE

### ADVANTAGES

- Low Cost
- Easy to weld & Fab
- Good Chemical Resistance
- Light Weight

### PROVEN APPLICATIONS

- Chemical Storage
- Water Systems
- Waste Water Systems
- Irrigation Systems
- Communications

### STANDARD SIZES

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

### STANDARD COLORS

- Natural

### CUSTOM SIZES, COLORS

- Contact inside sales

### FABRIC BACKING

- LAM HDPE(F) – polyester

### Weld Materials:

- 1/8" & 5/32" Round Rod

**Disclaimer:** The information contained herein though believed to be true in nature is meant as general guidelines only. As such Laminations Incorporated makes NO EXPRESSED OR IMPLIED WARRANTIES with regard to specific end uses of these materials. Each purchaser is responsible for establishing and determining the specific material requirements for a given application. Any direct or consequential damages resulting from the improper use of these materials are strictly the responsibility of the buyer. Laminations Incorporated limits its liability to the replacement value of any defective products. Laminations Incorporated will not be responsible for or held liable for the improper use of our materials with regard to patent infringements, nor should any of our literature be construed as an offer of indemnity for patent infringement.