

# Polyfabrics

Reliability you  
can build on



## LLDPE LINER



### APPLICATIONS

- Channels, Ponds, Lakes
- Containment Areas
- Landfill Liner & Caps
- Golf Course Ponds
- Irrigation Reservoirs
- Waste Water Treatment

Due to its excellent chemical resistance and low material cost, LLDPE is extremely popular in lining applications requiring low permeability, high flexibility and strength/density ratio. LLDPE Liners are becoming more widely used as the implications of contaminated soil conditions on structures and the general environment. Polyfabrics' LLDPE Liners are most commonly used in lining of channels, small dams and other containment structures. The customized resin formulation exhibits high flexibility and ductility, also making it suitable for detailed and irregular surfaces such as tank lining and stormwater culvert wrapping.

Polyfabrics' LLDPE liners are produced using the highest quality virgin polyethylene base resin and are compliant with the stringent standards of GRI (Geosynthetics Research Institute) - GRI GM17.

Smooth LLDPE Liner Specifications

Index Properties	Units	Standard	1mm
Thickness Average	mm	ASTM D 5199	1
Density	g/cm <sup>3</sup>	ASTM D 792	0.939
<b>Tensile Properties</b>			
Break Strength	kN/m	ASTM D 6693	27
Break Elongation	%	ASTM D 6693	800
Tearing Resistance	N	ASTM D 1004	100
Puncture Resistance	N	ASTM D 4833	270
Flex Modulus (avg. MC/CMD)	MPa	ASTM D 790	280
Carbon Black Content	%	ASTM D 1603	2-3
Carbon Black Dispersion	Cat	ASTM D 5596	1-2
Oxidative Induction Time	Min	ASTM D 3895	100min in standard OIT
<b>Oven Aging at 85°C</b>			
Standard (90 days)	%	ASTM D 5721	35
High Pressure (90 days)	%	ASTM D 3895	60
UV Resistance (1600 hours)	%	ASTM D 5885	35
<b>Dimensions</b>			
Sizes	m	-	5.8 X 50
Weight	kg/m <sup>2</sup>	-	0.939