



The Liner Company

# SOLUTIONS

ENVIRONMENTAL PROTECTION, INC.

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## 45 mil Reinforced Polypropylene Specifications

### TYPICAL APPLICATIONS:

Lagoons

Ponds

Floating Covers and Similar Containments

Potable Water Containments

Hydroponic Farming Applications

Reinforced polypropylene provides a versatile flexible geomembrane liner. The unique three ply construction with a combination of custom fabric reinforcement encapsulated by extruded high performance polypropylene provides a strong, highly chemical resistant liner.

The chemically inert polymer is modified to provide many specialized properties that include excellent flexibility, low thermal coefficient of expansion and contraction, outstanding dimensional stability, wide temperature range for excellent seaming and good chemical resistance in exposed liner applications. All factory and field seams are thermally welded.

Gauge, Nominal (mils)	ASTM-D751	45 ± 10%
Plies Reinforcing		1
Breaking Strength	ASTM-D7004	200 x 250lbs.
Tear Strength (lbs. Min.)	ASTM-D5884	100 lbs.
Low Temperature (°F)	ASTM-D2136, 1/8" Mandrel – 4 hrs.	-40°F
Dimensional Stability (% Change Max.)	ASTM-D1204 (180°F/1 hour)	1 %
Hydrostatic Resistance (psi Min.)	ASTM-D751, Method A	350 psi
Puncture Resistance	ASTM-D4833 (Index Puncture)	85 lbs min 120 lbs Typical
Water Absorption (Max. % Weight Change)	ASTM-D471	<1%
U. V. Resistance	ASTM-G155 Xenon Arc, 15,120 kJ/m <sup>2</sup> total Radiant exposure	Pass
<b>Factory Fabricated Seams:</b>		
Peel Strength (lbs/in, min)	ASTM D-882	20
Shear Strength (lbs/in, min)	ASTM D-882	200

*Preserving water resources for future generations*

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