



SOLUTIONS

ENVIRONMENTAL PROTECTION, INC.

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45mil Reinforced Polypropylene Physical Properties

TYPICAL APPLICATIONS

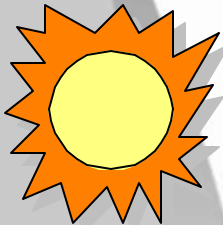
Lagoons

Ponds

Floating covers and similar containment's

Potable water containment's

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-D751, Method A	300 x 250lbs.
Tear Strength (lbs. Min.)	ASTM-D751, Tongue Tear	100 lbs.
Low Temperature (°F)	ASTM-D2136, 1/8" Mandrel – 4 hrs.	-65°F
Dimensional Stability (% Change Max.)	ASTM-D1204 (180°F/1 hour)	1 %
Hydrostatic Resistance (psi Min.)	ASTM-D751, Method A	350 psi
Ply Adhesion (lbs./in. Min.)	ASTM-D413	20 lbs.
Puncture Resistance	FTM-101 B, Method 2031	250 lbs.
Water Absorption (Max. % Weight Change)	ASTM-D471	<1%
U. V. Resistance	ASTM G-26 Xenon Arc @ 80°C	Pass @ 12,000 hours +
Resistance to Soil Burial (% Tensile Retention)	ASTM-D3083 (Part. 9.5)	90% Min.

Preserving water resources for future generations

Visit our Internet web site at
www.geomembrane.com