



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.

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|---|--|-------------------------------|
| 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 ² total Radiant exposure | Pass |
| Factory Fabricated Seams: | | |
| Peel Strength (lbs/in, min) | ASTM D-882 | 20 |
| Shear Strength (lbs/in, min) | ASTM D-882 | 200 |

Preserving water resources for future generations

Distributed by: Cascade Geosynthetics
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