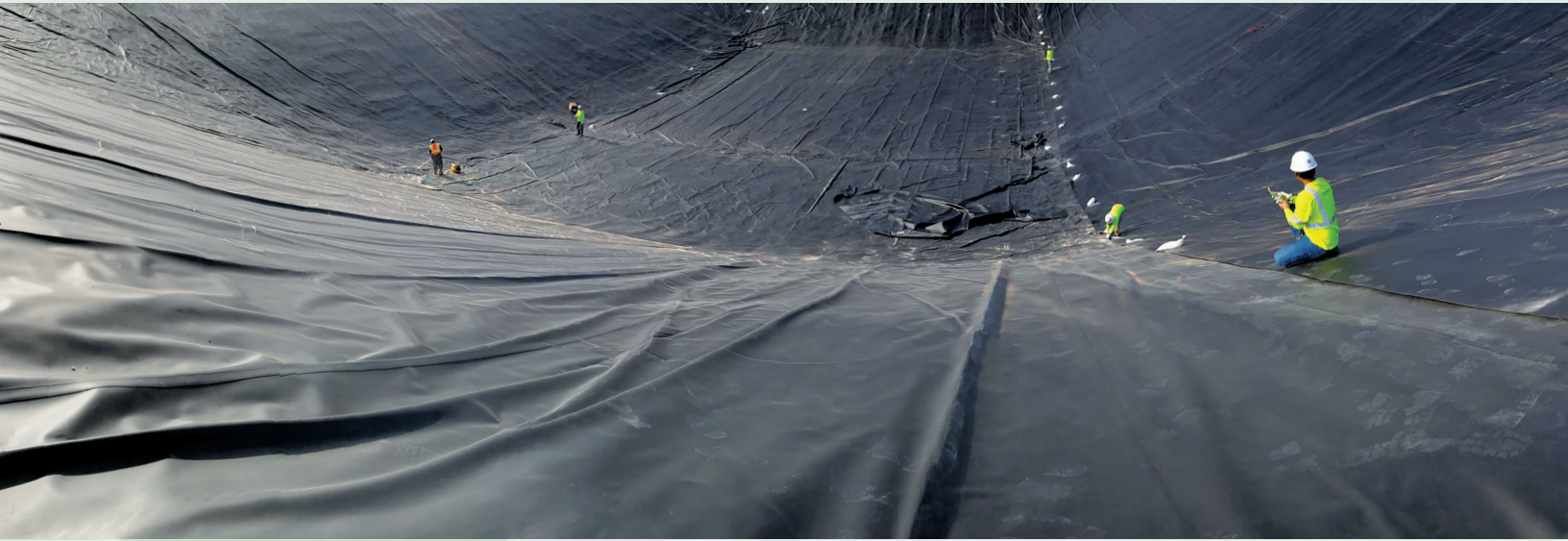


Reinforced Polypropylene (RPP)



SAFETY MINDED.
QUALITY FOCUSED.
CUSTOMER DRIVEN.



Reinforced Polypropylene (RPP) Liner

RPP is a heat-weldable polyester reinforced sheet designed for floating covers and liners in potable and industrial water containment applications. RPP is specifically formulated for long-term use in both buried or exposed geomembrane applications. It is a proven solution to many containment needs due to its excellent puncture resistance and UV stability.

EnviroCon Systems, Inc., offers turnkey design-build, fabrication and installation services for all of our products, ensuring customers get the right products for their specific application. Custom fabricated panels allow many projects to be completed in a single panel installation with the assurance that seams are produced in a controlled environment. Whether the project is large or small, EnviroCon Systems' fabrication services provide a custom solution for your project needs.

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Applications:



Material Properties:

- Flexible
- NSF 61 Certified (potable water/fish friendly)
- Puncture Resistant
- Chemical Resistance
- Long Lasting

Product Range:

- Tan / Green / White Color Options
- Available in Custom Shapes and Sizes
- 36 / 45 / 60 mil

Manufacturer Warranty

- 36 mil - 15 Year Warranty
- 45 mil and 60 mil - 20 Year Warranty

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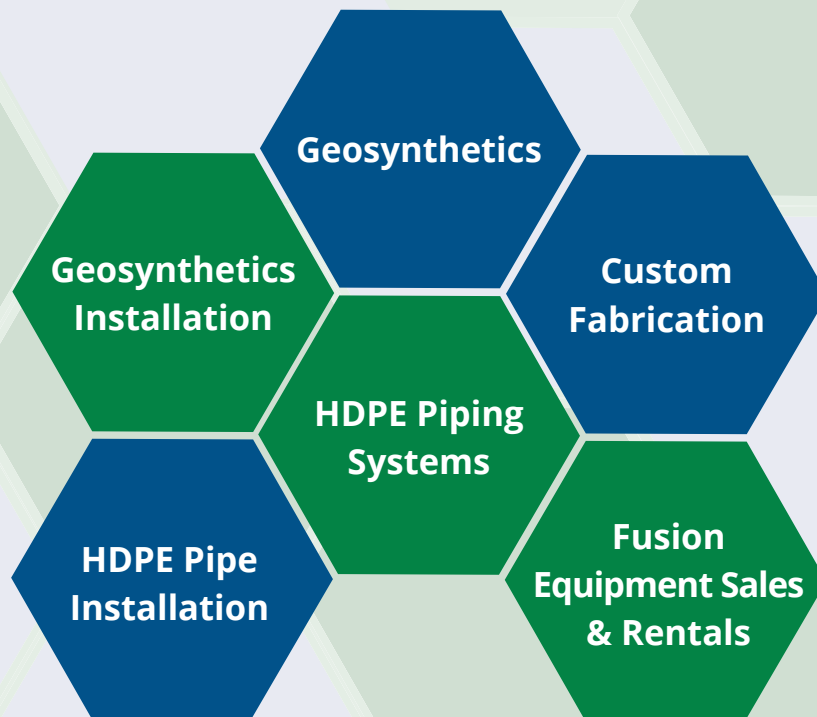
Physical Property	Test Method	Property of Unaged Sheet	Property After Aging 672 Hrs (28 Days) @ 116C (240°F)
Tolerance on Nominal Thickness, %	ASTM D 5199	0.91 mm (0.036") 1.14 mm (0.045") 1.52 mm (0.060")	
Thickness Over Scrim, mm (inches) 0.91 mm (0.036") 1.14 mm (0.045") 1.52 mm (0.060")	ASTM D 4637 Optical Method	0.254 (0.045") Min. 0.330 (0.013") Min. 0.762 (0.030) Min.	
Mass per Umt Area, kg/m ² (g/ft ²) (lb/ft ²) 0.91 mm (0.036") 1.14 mm (0.045") 1.52 mm (0.060")	ASTM D 5261	0.83 (77) (0.17) Typical 1.03 (95) (0.21) Typical 1.22 (117) (0.25) Typical	
Breaking Strength, kN (lbf) (Grab Tensile at Strain Rate of 12 in./min.) 0.91 mm (0.036") 1.14 mm (0.045") 1.52 mm (0.060")	ASTM D 7004	0.9 (200) Min/ 260 Typical 1.1 (250) Min. 300 Typical	0.9 (200) Min/ 260 Typical 1.1 (250) Min. 300 Typical
Elongation at Break of Fabric, %	ASTM D 7004	25 Typical	25 Typical
Tearing Strength, N (lbf) 50.8 mm (2" / Min. Strain Rate) 0.91mm (0.036"), 1.14 mm (0.045") & 1.52 mm (0.060")	ASTM D 5884 (Max Load)	356 (80) Min. 578 (130) Typical 445 (100) Min. 712 (160) Typical	
Low Temperature Flexibility, C (°F)	ASTM D 2136 1/8 in. Mandrel 4 Hrs @ Temperature	- 40 (- 40) Max. - 46 (- 50) Typical	
Linear Dimensional Change (Shrinkage), % 6 hrs @ 70°C (158°F) or 1 hr @ 100°C (212°F)	ASTM D 1204	+/- 1.0 Max. - 0.5 Typical	
Ozone Resistance, 100 pphm, 168 Hrs	ASTM D 1149	No Cracks	
Resistance to Water (Distilled) Absorption After 30 Days Immersion 50°C (122°F) Change in Mass, %	ASTM D 471 (Coating Compound Only)	1.0 Max. 0.5 Typical	
Hydrostatic Resistance, MPa (lbf / in. ² or psi) (Mullen Burst) 0.91 mm (0.036") 1.14 mm (0.045") 1.52 mm (0.060")	ASTM D 751 Procedure A	2.4 (350) Min. 2.8 (400) Typical 3.1 (450) Typical 3.4 (500) Typical	2.4 (350) Min. 2.8 (400) Typical 3.1 (450) Typical 3.4 (500) Typical
Field Seam Strength, kN/m (lbf/in.) Seam Tested in Peel After Weld	ASTM D 413 1 in. Wide	3.9 (22) Min. 7.9 (45) Typical Peak Load	
Water Vapor Permeance, Perms	ASTM E 96	0.10 Max. 0.05 Typical	
Puncture Resistance, N (lbf) 0.91 mm (0.036") 1.14 mm (0.045") 1.52 mm (0.060")	ASTM D 4833 (Index Puncture)	378 (85) Min 489 (110) Typical 534 (120) Typical 525 (118) Typical	
Resistance to Xenon-Arc Weathering ¹ Xenon-Arc, 15, 120 kJ/m ² Total Radiant Exposure, Visual Condition at 10X	ASTM G 155 0.70 W/m ² 80°C B.P.T	No Cracks No Loss of Breaking or Tearing Strength	
Potable Water Accepted	NSF-61	Passes	
Chronic Toxicity Screening	EPA/600/4-89/ 001 ASTM E 729 Method 1000.0	Passes	Passses

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EnviroCon Systems, Inc., specializes in technical and safety intensive geosynthetics and HDPE piping solutions.



EnviroCon Systems, Inc., is committed to providing high quality, innovative containment solutions dedicated to a strong culture of best safety work practices and outstanding service, with integrity, loyalty, and meticulous attention to detail for our customers, employees, and investors.

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