

COOLTECT®



Applications

Liners and Covers | Baffle Curtains |
Construction Enclosures | Primary &
Secondary Containment

Added Benefits

Encapsulated Edge
High-Strength Polyester Knit Scrim
Flexible Polyethylene Polymer
High-Chemical Resistance
Excellent UV Resistance

Available Colors

Black | Tan | White
Custom colors available upon request



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CoolTect® RPE is a high-performance, flexible, scrim-reinforced polyethylene designed for a wide range of applications, including pad liners, pit liners, pond/tank liners and covers, construction and industrial enclosures, as well as primary and secondary containment. Available in rolls up to five meters wide, it minimizes seaming and enhances installation efficiency. Its flexibility supports improved quality control and easy pre-fabrication—resulting in significant cost and time savings by reducing the need for on-site construction.

Featuring a high-strength, polyester-knitted scrim, CoolTect delivers excellent dimensional stability and outstanding resistance to punctures, tears, expansion, and contraction. This ensures smoother installations, minimal wrinkling, and long-term membrane integrity. A proprietary extrusion process encapsulates the scrim edges by applying polymer directly to the reinforcement, providing superior performance over coated or laminated alternatives.

Certified to NSF Standard 61 and AS 4020 for potable water usage.

**For more information, please contact
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CoolTect® RPE45 | 45 mils

TECHNICAL DATA

COATED FABRIC SPECIFICATIONS*

Revision Date: 8 May 2025
Expiry Date: 16 Aug 2026

Total Thickness	45±4 mils
Thickness over scrim (min)	17 mils
Total Weight (nominal)	30 oz/yd ²
Coating Type	Polyethylene
Sealing Properties	Thermal

PROPERTY		MINIMUM	TYPICAL	TEST METHOD
Tensile Strength, Grab	warp/fill	300 / 300 lbs	365 / 400 lbs	ASTM D7004
Tensile Elongation, Grab	warp/fill	25 / 25%	30 / 30%	ASTM D7004
Tensile Strength, 1" Strip	warp/fill	180 / 195 lbs	190 / 215 lbs	ASTM D751B
Tensile Elongation, 1" Strip	warp/fill	25 / 25%	29 / 29%	ASTM D751B
Tear Strength, Tongue	warp/fill	90 / 100 lbs	115 / 150 lbs	ASTM D5884
Puncture, Rod		95 lbs	110 lbs	ASTM D4833
Hydrostatic Resistance		20 lbs/in	40 lbs/in	ASTM D6636
Ply Adhesion strength		425 psi	450 psi	ASTM D751
Shrinkage (180°F/1 hr)		-70°F	-70°F	ASTM D2136
Low Temperature Bend		<1%	0.5%	ASTM D1204
Abrasion Resistance (H18/1 kg)		20,000 cycles	30,000 cycles	ASTM D3389
Oxidative Induction Time		100 minutes	600 minutes	ASTM D8117
Hydraulic Conductivity		1.0 x 10 ⁻¹¹ cm/sec		ASTM E96
Seam Shear Strength		120 lbs/in	130 lbs/in	ASTM D7747
Seam Peel Strength		30 lbs/in	85 lbs/in	ASTM D7747

Comments:

- This product is certified to AS4020 and NSF Std 61 for potable water containment.
- This product meets the requirements of GRI GM-25 (Category 2 - Standard) specification.
- This product is safe for fish and plants and passes the following USEPA Chronic Toxicity Screening tests: EPA 1000.0, EPA 1002.0, EPA 2000, and EPA 2021.0
- Seam strength complies with the specification GRI GM-19b, Seam Strength and Related Properties of Thermally Bonded Reinforced Polyolefin Geomembranes/Barriers.

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