

COOLGUARD®



Primary/Secondary Containment

Bladder Tanks | Baffles | Liners
Floating Covers | Agriculture

Added Benefits:

Outstanding chemical and fuel resistance with little or no deterioration of physical properties

High abrasion resistance

Superior durability against tears, punctures, and UV exposure

RF, wedge, and hot air weldable

A variety of standard widths and colors are available.



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CoolGuard® geomembranes are engineered for primary and secondary containment of hydrocarbons, liquids (including potable water), aggressive chemicals, and other regulated substances, providing a cost-effective alternative to double-walled tanks, concrete-lined embankments, and similar systems. Formulated with DOW® ELVALOY™ (KEE) and Cooley's proprietary ethylene interpolymer PVC alloy, CoolGuard fabrics deliver broad chemical resistance with minimal loss of physical properties. CoolGuard offers highly diverse membranes for a broad range of containment applications.

CoolGuard® MPK: Economical, lightweight material resistant to petroleum products.

CoolGuard® HRL: Features an exclusive 'rip-stop' design, for exceptional durability and flexibility to contain a variety of fuels.

CoolGuard® SKX: Premium membranes offering robust performance and resistance to an extensive variety of chemicals.

Advanced polymer processing, stabilizers, and manufacturing techniques ensure the CoolGuard family delivers exceptional resistance to punctures, tears, abrasion, UV exposure, hydrocarbons, and chemicals.

**For further information, please contact
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CoolGuard® HRL45

TECHNICAL DATA

COATED FABRIC SPECIFICATIONS*

Revision Date: 17 Jan 2024
Expiry Date: 17 Jan 2029

Total thickness	45±10% mils
Total weight	40 oz/yd ²
Coating Type	EIA
Sealing Properties	Dielectric Thermal

PROPERTY		MINIMUM	TYPICAL	TEST METHOD
Tensile Strength, Grab	warp/fill	625 / 600 lbs	670 / 630 lbs	ASTM D751A
Tensile Strength, 1" Strip	warp/fill	325 / 260 lbs	375 / 350 lbs	ASTM D751A
Tear Strength, Tongue	warp/fill	120 / 120 lbs	160 / 170 lbs	ASTM D5884
Puncture, Flat Tip		220 lbs	245 lbs	ASTM D4833
Puncture, Ball Tip		1,000 lbs	>1,000 lbs	ASTM D751
Puncture, Pyramid Tip (FTMS 101C)		375 lbs	400 lbs	Method 2031
Hydrostatic Resistance		800 psi	815 psi	ASTM D751A
Dimensional Stability (1 hr/212F)		2.5% (max)	1.5%	ASTM D1204
Ply Adhesion		25 lbs/2 in	30 lbs/2 in	ASTM D751
Thermal/RF Adhesion		20 lbs/in	40 lbs/in	ASTM D751
Abrasion Resistance (H18/1 kg)		550 cycles	725 cycles	ASTM D3889
Low Temperature Bend		-40°F (max)		ASTM D2136

Key Features & Benefits:

- High strength Leno scrim for superior tear resistance.
- Encapsulated edges to reduce wicking and risk of delamination as well as minimizing taping of seams and lower fabrication cost.
- 74" and 78" widths available (30% wider than standard 60)" for fewer seams, better finished products and lower fabrication cost.

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