

COOLTHANE®



Primary and Secondary Fuel Containment

Oil Booms | Inflatable Boats | Baffles |
Collapsible Tanks | General Industrial

Added Benefits

Outstanding fuel and chemical resistance
Proven performance at low temperatures
Exceptional resistance to UV, extreme
weather, tearing, and abrasion
Durable under tough conditions, minimizing
wear and damage

Available Colors

Black | Tan | White
Custom colors available upon request



CoolThane® TPU membranes are engineered for both primary and secondary containment of liquids—including potable water, fuels, and a wide range of aggressive chemicals. Their exceptional flexibility allows them to conform to complex surfaces while providing superior resistance to punctures, abrasion, ultraviolet radiation, and extreme temperatures.

Available in ether and ester formulations, CoolThane membranes are hydrolytically stable and resistant to petroleum hydrocarbons, making them ideal for long-term fuel, chemical, and potable water applications. The exclusive “rip-stop” scrim, advanced polymer processing, and precise manufacturing produce a versatile, high-performance geomembrane.

Combining high strength with outstanding heat-sealing performance, these membranes deliver long-lasting, reliable protection, and performance even in the most demanding environments—from military liners and water bladders to inflatable boats, oil booms, and lightweight containment fabrics.

**For more information, please contact
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CoolThane® 18 MONO

TECHNICAL DATA

BASE FABRIC

Base Fabric Weight	2.4 oz/yd ²
Fiber / Style	Polyester Monofilament

Revision Date: 8 June 2022
Expiry Date: 2 Feb 2027

COATED FABRIC

Coating Type	TPU
Sealing Properties	Dielectric Thermal

CERTIFIED MATERIAL PROPERTIES

PROPERTY		MINIMUM	TYPICAL	TEST METHOD
Weight		17 oz/yd ²	18 oz/yd ²	ASTM D751
Thickness		18 mils	22 mils	ASTM D751
Tensile Strength, Grab	warp/fill	125 / 100 lbs	146 / 122 lbs	ASTM D751A
Tear Strength, Tongue	warp/fill	5 / 4 lbs	9 / 9 lbs	ASTM D2261
Ply Adhesion		25 lbs per 2"	34 lbs per 2"	ASTM D751

INFORMATION ONLY (Typical Values)

UV Transmission	360-400 nm	>40%	ASTM E903
	400-750 nm	>70%	
Tensile Strength, 1" Strip	warp/fill	95 / 60 lbs	ASTM D751B
Puncture Strength, Screwdriver		30 lbs	ASTM D751
Puncture Strength, Ball		180 lbs	ASTM D751
Hydrostatic Resistance		225 psi	ASTM D751A
Adhesion, RF and Thermal		25 lbs/in	ASTM D751
Low Temperature Bend		-40°F	ASTM D2136
High Temperature (Continuous/Intermittent)		160 / 180°F	ASTM D1204
Abrasion Resistance (H18/1kg)		5,000 cycles	ASTM D3884

Comments:

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