

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
Cooley Containment Solutions**

Cooley Group
350 Esten Avenue
Pawtucket, RI 02860
Tel: +1 401.724.9000
containment@cooleygroup.com
cooleygroup.com

CoolThane® L4090UPWE-1-2

TECHNICAL DATA

COATED FABRIC SPECIFICATIONS*

Revision Date: 25 May 2020
Expiry Date: 25 May 2025

Total thickness	54±2 mils
Total weight	28±2 oz/yd²
Coating Type	Polyurethane (TPU)
Sealing Properties	Dielectric Thermal

PROPERTY	MINIMUM	TYPICAL	TEST METHOD
Tensile Strength, 1" Strip	500 x 500 lbs	950 x 700 lbs	ASTM D751-B
Tear Strength, Tongue	35 x 35 lbs	70 x 100 lbs	ASTM D751-B
Puncture, Screwdriver	200 lbs	250 lbs	ASTM D751
RF Seam Adhesion Strength	30 lbs/in	55 lbs/in	ASTM D751
Thermal Seam Adhesion Strength	30 lbs/in	55 lbs/in	ASTM D751
Low Temperature Bend	-40°F		ASTM D2136
High Temp (continuous/intermittent)	180/200°F		ASTM D1204

Comments: This product meets the requirements of ATPD-2265 (all sizes) and MIL-T-53029C (all sizes)
This product meets the requirements of 21 CFR 177.2600 for aqueous food contact.

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