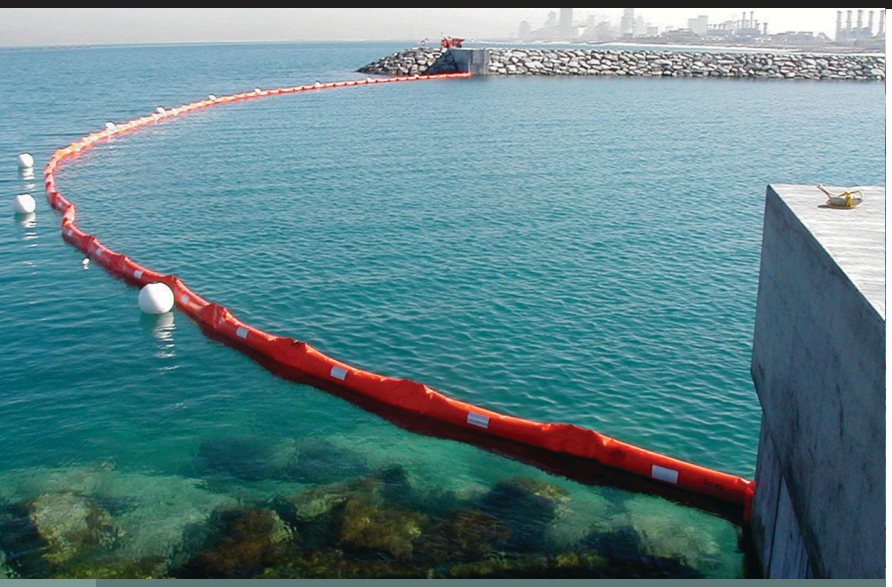
Cooley / CONTAINMENT SOLUTIONS

FUEL
CONTAINMENT

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

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CoolThane® L4090NESUE 1-1

TECHNICAL DATA

Revision Date: 16 Dec 2022
Expiry Date: 3 May 2027

COATED FABRIC SPECIFICATIONS*	
Base Fabric Weight	15.6 oz/yd^2
Total thickness (nominal)	50 mils
Total Weight	41±1 oz/yd^2
Coating Type	TPU
Sealing Properties	Dielectric | Thermal

PROPERTY		MINIMUM	TYPICAL	TEST METHOD
Grab Tensile Strength	warp	900 lbs	1,100 lbs	ASTM D751A
	fill	900 lbs	1,000 lbs	ASTM D751A
Strip Tensile Strength	warp	700 lbs/in	925 lbs/in	ASTM D751B
	fill	700 lbs/in	807 lbs/in	ASTM D751B
Tongue Tear Strength	warp	40 lbs	65 lbs	ASTM D751
	fill	40 lbs	100 lbs	ASTM D751
Puncture, Screwdriver		225 lbs	250 lbs	ASTM D751
Puncture, Ball		1,200 lbs	1,500 lbs	ASTM D751
Hydrostatic Resistance		1,000 psi	>1,000 lbs	ASTM D751A
Adhesion, RF		40 lbs/in	58 lbs/in	ASTM D751
Adhesion, thermal		40 lbs/in	58 lbs/in	ASTM D751
Abrasion Resistance (H22 & H18/1 kg)		12,000 cycles	20,000 cycles	ASTM D3889
Low Temperature Bend		-50°F		ASTM D2136
High Temp (continuous/intermittent)		160/180°F		ASTM D1204
Permeability (Fuel B)		0.035 fl-oz/ft^2/day (max)		ASTM D814

Comments:

- *This product is designed for primary containment of fuel in accordance with MIL-PRF- 32233B (rev December 2006).*

For further information, please contact Cooley Containment Solutions:
+1 401.724.9000 or containment@cooleygroup.com