

EPDM

GEOMEMBRANE LINER



EPDM (Ethylene Propylene Diene Monomer) is a unreinforced, highly flexible geomembrane that is incredibly durable. This UV-Stable product has excellent tensile strength and is an effective solution to environmental containment. EPDM has excellent elongation characteristics, and conforms well to irregularities in the subgrade. Titan's EPDM products have a soft rubber like feel, similar to an inner tube.

TESTED PROPERTY	TEST METHOD	UNIT ENGLISH METRIC	VALUE ENGLISH(METRIC)	
			45mil	60mil
Color			Black	Black
Thickness, nominal $\pm 10\%$	ASTM D 5199	mil (mm)	45 (1.14)	60 (1.52)
TENSILE PROPERTIES				
Break Strength	ASTM D 882	lb/in (kN/m)	50 (9)	65 (11.4)
Break Elongation	ASTM D 882	%	500	500
Tear Resistance lbf/in (kN/m)	ASTM D 1004	lbs (N)	9 (40)	12 (50)
Puncture Resistance	ASTM D 4883	lbs (N)	35 (150)	45 (190)
Brittleness Temperature	ASTM D 746	$^{\circ}\text{F}$ ($^{\circ}\text{C}$)	-49(-45)	-49(-45)
Water Vapor Permeance Max. Perms	ASTM E 96 (Proc B or W)		2.0	2.0
Resistance to Water Absorption % change in mass max. after 7 days immersion @ 170°F (65°C)	ASTM D 471		+8.0 -2.0	+8.0 -2.0
Resistance to Heat Aging (Properties after 170 hrs @ 212°F (100°C) 1. Tensile Break Strength 2. Elongation, ultimate min.	ASTM D 882	%	90 75	90 75
Multiaxial Elongation	ASTM D 5617	%	100	100
Dimensional Stability	ASTM D 1204	%	0.75	0.75
Ozone Resistance Condition after exposure to 100pphm ozone in air for 168 hrs @ 140°F (40°C) (Sample under 50% strain)	ASTM D 1149		No Cracks	No Cracks
Resistance to outdoor (Ultraviolet) Weathering , Xenon-Arc, 4000 hr exposure @ 70°F (176°F) Black panel temperature, visual condition	ASTM G 26		No Cracks	No Cracks
Toxicity to Fish	ASTM E 729 (96) Modified		Passes	Passes
Shore A Durometer	ASTM D 2240		65 \pm 10	65 \pm 10

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