

TITAN EPDM - 45

45mil ECO GEOMEMBRANE LINER



Ethylene Propylene Diene Monomer 45mil

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

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TITAN ENVIRONMENTAL CONTAINMENT

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