



TITAN EPDM – 60

ECO GEOMEMBRANE

LINER

(Ethylene Propylene Diene Monomer 60 mil)

PROPERTY	TEST METHOD	MINIMUM PROPERTIES ENGLISH	MINIMUM PROPERTIES METRIC
Colour		Black	Black
Thickness, nominal \pm 10%	ASTM D-5199	60 mil	1.52 mm
Tensile Properties			
Break Strength	ASTM D-882	65 lb/in	11.4 kN/m
Break Elongation	ASTM D-882	500%	500%
Tear Resistance lbf/in (kN/m)	ASTM D-1004	12 lbs	50 N
Puncture Resistance	ASTM D-4883	45 lbs	190 N
Brittleness Temperature °F (°C)	ASTM D-746	-49°F	-45°C
Water Vapour Permeance max. perms	ASTM E-96 (Proc B or BW)	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 100 pphm 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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