

Titan R45 (LLDPE-R)

45mil Scrim Reinforced Geomembrane



Titan R Series is a flexible geomembrane that incorporates polyester scrim, fully enclosed between two layers of linear low-density polyethylene (LLDPE). This design results in exceptional toughness, offering high tensile and puncture strength. The combination of premium high-strength LLDPE and dense scrim reinforcement contributes to its impressive durability. Additionally, the geomembrane features a highly stabilized formulation with antioxidants, UV stabilizers, and carbon black, providing excellent long-term protection for exposed and or barrier applications

Coated Fabric Specifications*

Total Thickness	45 ± 4mils (1.02 - 0.14 mm)
Total Weight (Nominal)	28 oz/yd ² (923 g/m ²)
Coating Type	Polyethylene
Sealing Properties	Thermal

TESTED PROPERTY	TEST METHOD	UNIT ENGLISH (METRIC)	VALUE ENGLISH (METRIC)	
			MINIMUM	TYPICAL
Grab Tensile	ASTM D751A	lbf (N)	275 (1223)	350 (1557)
Grab Elongation	ASTM D751A	%	22	30
Tear Strength, Tongue	ASTM D5884	lbf (N)	100 (445)	135 (601)
Puncture, Rod	ASTM D4833	lbf (N)	108 (480)	125 (556)
Ply Adhesion Strength	ASTM D751	lbs/in (N/cm)	20 (35)	35 (61)
Oxidative Induction Time	ASTM D3895	Minutes	100	150
Hydraulic Conductivity	ASTM E96	cm/sec	1.47 x 10 ⁻¹⁰	

NOTES:

*This product is certified to AS4020 and NSF Std 61 for potable water containment.

*This product meets the requirements of GRI GM-25 (Category 2 – Standard) specification

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