

TITAN WOVEN COATED (RPE)

30mil WOVEN COATED GEOMEMBRANE



Commonly used in hydraulic fracturing, tank liners, water reservoirs, and heavy-duty containment projects, Titan 30mil Woven Coated Geomembrane is a heavyweight fabric incorporating a special weave pattern to enhance thickness, flatness, and tear properties. One side is laminated LDPE/LLDPE film and the other has a coating designed to improve toughness and abrasion resistance. This product is intended for long-term buried or exposed applications.

PRODUCT SPECIFICATIONS:

Weave : Woven black HDPE scrim
Coating : LDPE 4mil average each side (95 g/m²/side)
Color : Black, white or colored coatings available
Weight : 12.2 oz/yd² (414 g/m²) ± 5%

PERFORMANCE PROPERTIES:

The following data are typical values based on ASTM standard tests. This data should not be considered a specification.

TESTED PROPERTY	TEST METHOD	UNIT ENGLISH (METRIC)	VALUE ENGLISH (METRIC)	
			MD	TD
Thickness	ASTM D 1777	mil (mm)	Nominal 30 (0.75) ±10%	
Grab Tensile	ASTM D 7004	lbs (N)	282 (1252)	320 (1421)
Strip Tensile	ASTM D 7003	lb/in (N/5cm)	188 (1669)	225 (1998)
Tongue Tear - Large Scale	ASTM D 5884	lbs (N)	70 (311)	85 (377)
Mullen Burst	ASTM D 751	psi (kPa)	585 (4031)	
MVTR	ASTM E 96 Proc. BW	g/m ² 24 hrs (perms)	0.21 (0.03)	
Hydraulic Conductivity (Permeability)	Calculated from MVTR	cm/s	1.46 x 10 ⁻¹⁴	
Hydrostatic Resistance	ASTM D 751	psi (kPa)	423 (2914)	
Puncture Resistance	ASTM D 4833	lbs (N)	165 (733)	
CBR Static Puncture	ASTM D 6241	lbs (N)	1025	
Carbon Black Content	ASTM D 4218	%	3	
Dimensional Stability	ASTM D 1204	%	-2.9	-1.8
Low-Temperature Flex	ASTM D 2136-94	Pass	-65°C	-85°F
HP-OIT	ASTM D 5885 (Measured on coating formulation)	Minutes	1071	
Accelerated UV Weathering	ASTM D 7238	after 10,000 light hours	> 90% strength retention	

NOTES:

MD = Machine Direction. TD = Transverse Direction
i Q.U.V [A-340 Lamps]; 20 hrs UV @ 75°C; 4 hrs condensation @ 60°C

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