

TITAN WOVEN COATED (RPE)

12mil WOVEN COATED GEOMEMBRANE



Commonly used for temporary landfill covers or short-term liners. Titan 12mil Woven Coated Geomembrane is a medium-weight fabric incorporating a coating designed to improve toughness and abrasion resistance.

PRODUCT SPECIFICATIONS:

Weave : Woven black HDPE scrim

Coating : LDPE 1.5mil average each side (35.5 g/m²/side)

Color : Black or colored coatings available

Weight : 5.2 oz/yd² (176 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 12 (0.30) ±10%	
Grab Tensile	ASTM D 7004	lbs (N)	205 (912)	190 (845)
Strip Tensile	ASTM D 7003	lb/in (N/5cm)	140 (1226)	125 (1094)
Tongue Tear - Large Scale	ASTM D 5884	lbs (N)	85 (378)	90 (423)
Mullen Burst	ASTM D 751	psi (kPa)	315 (2174)	
MVTR	ASTM E 96 Proc. BW	g/m ² 24 hrs (perms)	0.35 (0.05)	
Hydraulic Conductivity (Permeability)	Calculated from MVTR	cm/s	1.37 x 10 ⁻¹⁴	
Hydrostatic Resistance	ASTM D 751	psi (kPa)	130 (896)	
Puncture Resistance	ASTM D 4833	lbs (N)	95 (423)	
CBR Static Puncture	ASTM D 6241	lbs (N)	530 (2353)	
Carbon Black Content	ASTM D 4218	%	3	
Dimensional Stability	ASTM D 1204	%	-2.9	-2.2
Low-Temperature Flex	ASTM D 2136-94	°C (°F)	Pass @ -40 (-40)	
HP-OIT	ASTM D 5885 (Measured on coating formulation)	Minutes	1330	
Accelerated UV Weathering	ASTM D 7238	after 2000 hours exposure @0.77 W/m ² /nm, or 1200 hrs exposure @1.35 W/m ² /mn	> 90% strength retention	

NOTES:

MD = Machine Direction. TD = Transverse Direction

i Q.U.V [A-340 Lamps]; 8 hrs UV @ 60°C; 4 hrs condensation @ 65°C

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