

TITAN R2000B

ENVIRONMENTAL GEOMEMBRANE LINER



20mil and 21mil LLDPE

TESTED PROPERTY	TEST METHOD	UNIT ENGLISH (METRIC)	VALUE ENGLISH (METRIC)	
			MIN ROLL AVERAGES	TYPICAL ROLL AVERAGES
Thickness	ASTM D 5199	mils (mm)	20.0 (0.50)	21.0 (0.53)
Density	ASTM D 792 or ASTM D 1505	g/cm ³	0.939 max	
Tensile Strength 1. Tensile Strength at Break 2. Elongation at Break	ASTM D 638/D6693	lbf/in width (N/mm width) %	76 (13) 800	104 (18) 875
Hydrostatic Resistance	ASTM D 751 (814)	psi (kPa)	188 (841)	122 (1206)
Puncture Resistance	ASTM D 4883 (130)	lbf (N)	30 (195)	44 (200)
Tear Resistance	ASTM D 1004 (49)	lbf (N)	11 (62)	14 (71)
Volatile Loss Method A	ASTM 1203	%		< 1
Resistance to Soil Burial 1. Tensile Strength at Yield 2. Tensile Strength at Break 3. Elongation at Yield 4. Elongation at Break 5. Modulus of Elasticity	ASTM D 3083	% change in max. original value		±10
Low Temp, Impact Failure Temp	ASTM D 746	°F (°C)	(<-70)	<-94
Dimensional Stability	ASTM D 1204	% change		< 2
Environmental stress crack Resistance hours to failure	ASTM D 5397 Appendix A	hrs		>400
Carbon Black	ASTM D 1603 or D 4218	%	2.0	2.5
Perms	ASTM E96 Method A 73°F, 50% RH	grains/ft ² /hr/in. HG (grains/m ² /day/mm. HG)		0.045 (0.030)
FACTORY SEAM REQUIREMENTS				
Bonded Seam Strength	ASTM D 4545 Mod*	lbf/in. width (N/cm width)	40 (70)	45 (79)
Seal Peel Adhesion	ASTM D 4545 Mod*	lbf/in. width (N/cm width)	30 (53)	36 (63)

Nominal Weight/Thousand Square Feet: 105 lbs.

*Seam testing performed at 12 ft/minute.

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TITAN ENVIRONMENTAL CONTAINMENT

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