



TITAN R2000B

ENVIRONMENTAL GEOMEMBRANE

LINER

(20mil & 21mil LLDPE)

PROPERTIES	TEST METHOD	TITAN R2000B	
		Min. Roll Averages	Typical Roll Averages
Thickness mils (mm)	ASTM D 5199	20.0 (0.50)	21.0 (0.53)
Density g/cm ³	ASTM D792 or ASTM D1505	0.939 Max.	
Tensile Strength lbf/in. width (N/mm width)	ASTM D638/D6693 1. Tensile Strength at Break 2. % Elongation at Break	76 (13) 800	104 (18) 875
Hydrostatic Resistance psi (kPa)	ASTM D751 (814)	188 (841)	122 (1206)
Puncture Resistance lbf (N)	ASTM D4883 (130)	30 (195)	44 (200)
Tear Resistance lbf (N)	ASTM D1004 (49)	11 (62)	14 (71)
Volatile Loss Method A	ASTM 1203		<1%
Resistance to Soil Burial (% change max. in original value)	ASTM D3083 1. Tensile Strength at Yield 2. Tensile Strength at Break 3. Elongation at Yield 4. Elongation at Break 5. Modulus of Elasticity		±10%
Low Temp, Impact Failure Temp F (C)	ASTM D746	(<-70)	<-94
Dimensional Stability % Change	ASTM D1204		<2
Environmental Stress Crack Resistance Hours to failure	ASTM D5397 Appendix A		>400
Carbon Black %	ASTM D1603 or D4218	2.0	2.5
Perms grains/ft ² /hr/in. Hg (grains/m ² /day/mm Hg)	ASTM E96 Method A 73° F, 50% RH		0.045 (0.030)
FACTORY SEAM REQUIREMENTS			
Bonded Seam Strength lbf/in. width (N/cm width)	ASTM D4545 Mod*	40 (70)	45 (79)
Seal Peel Adhesion lbf/in. width (N/cm width)	ASTM D4545 Mod*	30 (53)	36 (63)

Nominal Weight/Thousand Square Feet: 105 lbs

*Seam testing performed at 12 ft / minute.

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Phone: +1.204.878.3955 Fax: +1.204.878.3980 Toll Free: +1.866.327.1957

damage. This information is subject to change without notice, please check with *Titan Environmental Containment Ltd.* for current updates.

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Phone: +1.204.878.3955 Fax: +1.204.878.3980 Toll Free: +1.866.327.1957