

LEAK LOCATION

TEXTURED HDPE GEOMEMBRANE



Titan HDL Leak Location Textured is a co-extruded double-sided textured, spark-testable high-density polyethylene (HDPE) geomembrane that contains an integrated specially formulated conductive layer on the bottom surface of the geomembrane. A textured surface is available on one or both sides for applications that require increased friction. This liner can easily be tested for post-installation damage using equipment capable of performing spark testing in the field per ASTM D 7240. This product is used in applications that require post installation testing on the liner system to increase the quality of the project. This product specification meets GRI-GM13.

TESTED PROPERTY	TEST METHOD	FREQUENCY	UNIT ENGLISH (METRIC)	MINIMUM AVERAGE ROLL VALUES ENGLISH (METRIC)			
				Titan 40SST Titan 40DST	Titan 60SST Titan 60DST	Titan 80SST Titan 80DST	Titan 100SST Titan 100DST
Thickness Lowest individual reading	ASTM D 5994	every roll	mil (mm)	40 (1.00) 36 (0.90)	60 (1.50) 54 (1.35)	80 (2.00) 72 (1.80)	100 (2.50) 90 (2.25)
Density	ASTM D 1505	200,000 lb (90,000 kg)	g/cm ³	0.940	0.940	0.940	0.940
Tensile Properties (Each Direction)	ASTM D 6693, Type IV Dumbell, 2 ipm	20,000 lb (9,000 kg)	lb/in-width (N/mm)	60 (10)	90 (16)	120 (21)	150 (26)
Strength at Break			lb/in-width (N/mm)	84 (15)	126 (22)	168 (29)	210 (37)
Strength at Yield	G.L. 2.0in (50mm)		%	100	100	100	100
Elongation at Break	G.L. 1.3in (33mm)		%	12	12	12	12
Elongation at Yield							
Tear Resistance	ASTM D 1004	45,000 lb (20,000 kg)	lb (N)	28 (125)	42 (187)	56 (249)	70 (311)
Puncture Resistance	ASTM D 4833	45,000 lb (20,000 kg)	lb (N)	60 (267)	90 (400)	120 (534)	150 (667)
Carbon Black Content ⁽¹⁾	ASTM D 1603*/4218	20,000 lb (9,000 kg)	% (range)	2.0 – 3.0	2.0 – 3.0	2.0 – 3.0	2.0 – 3.0
Carbon Black Dispersion	ASTM D 5596	45,000 lb (20,000 kg)		Note ⁽²⁾	Note ⁽²⁾	Note ⁽²⁾	Note ⁽²⁾
Asperity Height	ASTM D 7466	second roll	mil (mm)	18 (0.45)	18 (0.45)	18 (0.45)	18 (0.45)
Notched Constant Tensile Load ⁽³⁾	ASTM D 5397, Appendix	200,000 lb (90,000 kg)	hr	500	500	500	500
Oxidative Induction Time,	ASTM D 3895, 200°C; O ₂ , 1 atm	200,000 lb (90,000 kg)	mins	>100	>100	>100	>100
TYPICAL ROLL DIMENSIONS							
Roll Length ⁽⁴⁾	Double-Sided Textured		ft (m)	700 (213)	520 (158)	400 (122)	330 (101)
	Single-Sided			780 (238)	540 (165)	410 (125)	330 (101)
Roll Width ⁽⁴⁾			ft (m)	22.5 (6.86)	22.5 (6.86)	22.5 (6.86)	22.5 (6.86)
Roll Area	Double-Sided Textured		ft ² (m ²)	15,750 (1,461)	11,700 (1,084)	9,000 (837)	7,425 (693)
	Single-Sided			17,550 (1,633)	12,150 (1,132)	9,225 (858)	7,425 (693)

NOTES:

- (1) Leak Location Smooth may have an overall ash content of 3.0% due to the conductive layer. These values apply to the non-conductive black layer only.
- (2) Dispersion applies to near spherical agglomerates. 9 of 10 views shall be Category 1 or 2. No more than 1 view from Category 3.
- (3) NCTL for Leak Location textured is conducted on representative smooth membrane samples.
- (4) Roll lengths and widths have a tolerance of ±1%.
 - o HDPE Leak Location Smooth is available in rolls weighting approximately 4,000 lb (1,800 kg)
 - o All geomembranes have a dimensional stability of ±2% when tested according to ASTM D 1204 and LTB of <-77°C when tested according to ASTM D 746.
 - o *modified

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TITAN ENVIRONMENTAL CONTAINMENT

Toll Free: 1-866-327-1957 | Email: info@titanenviro.com | Web: www.titanenviro.com

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