

# TITAN 40HDL SST/DST

## 40mil HDPE LEAK LOCATION GEOMEMBRANE



Titan HDL Leak Location Textured is a co-extruded single-sided or 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. 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)	VALUE ENGLISH (METRIC)
Thickness Lowest Individual Reading	ASTM D 5199	every roll	mil (mm)	40 (1.00) 36 (0.90)
Density	ASTM D 1505	200,000 lbs (90,000 kg)	g/cm <sup>3</sup> (min)	0.940
Tensile Properties (each direction) Strength at Break Strength at Yield Elongation at Break Elongation at Yield	ASTM D 6692, Type IV Dumbbell, 2 ipm (50mm/min) G.L. 2.0min (50mm) G.L. 1.3min (33mm)	20,000 lbs (9,000 kg)	lb/in-width (N/mm) lb/in-width (N/mm) % %	60 (10) 84 (15) 100 12
Tear Resistance	ASTM D 1004	45,000 lbs (20,000 kg)	lb (N)	28 (125)
Puncture Resistance	ASTM D 4833	45,000 lbs (20,000 kg)	lb (N)	60 (267)
Carbon Black Content <sup>(1)</sup>	ASTM D 1603*/4218	20,000 lbs (9,000 kg)	% (range)	2.0 – 3.0
Carbon Black Dispersion	ASTM D 5596	45,000 lbs (20,000 kg)		Note <sup>(2)</sup>
Asperity Height	ASTM D 7466	second roll	mil (mm)	18 (0.45)
Notch Constant Tensile Load <sup>(3)</sup>	ASTM D 5397, Appendix	200,000 lbs (90,000 kg)	hr	300
Oxidative Induction Time	ASTM D 3895, 200°C; O <sub>2</sub> , 1 atm	200,000 lbs (90,000 kg)	min	>100
TYPICAL ROLL DIMENSIONS				
Roll Length <sup>(4)</sup>	Double-Sided		ft (m)	700 (213)
	Single-Sided		ft (m)	780 (238)
Roll Width <sup>(4)</sup>			ft (m)	22.5 (6.86)
Roll Area <sup>(4)</sup>	Double-Sided		ft <sup>2</sup> (m <sup>2</sup> )	15,750 (1,461)
	Single-Sided		ft <sup>2</sup> (m <sup>2</sup> )	17,550 (1,633)

Notes:

(1) Leak Location may have an overall ash content greater than 3.0% due to the conductive layer. These values apply to the non-conductive layer only.

(2) Dispersion only 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 geomembrane samples.

(4) Roll lengths and widths have a tolerance of ±1%.

• HDPE Leak Location Textured is available in rolls weighing approximately 4,000 lb.

• All geomembranes have dimensional stability of ±2% when tested according to ASTM D 1204 and LTB of <-77° C when tested according to ASTM D 746.

• \*Modified.

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### TITAN ENVIRONMENTAL CONTAINMENT

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