

TITAN 100HDL SST/DST

100mil 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	ASTM D 5994	every roll	mil (mm)	100 (2.50)
Density	ASTM D 1505	200,000 lb (90,000 kg)	g/cm ³ (min)	0.940
Tensile Properties (Each Direction) Strength at Break Strength at Yield Elongation at Break Elongation at Yield	ASTM D 6693	20,000 lb (9,000 kg)	lb/in (kN/m) lb/in (kN/m) % %	150 (26) 210 (37) 100 12
Tear Resistance	ASTM D 1004	45,000 lb (20,000 kg)	lbs (N)	70 (311)
Puncture Resistance	ASTM D 4833	45,000 lb (20,000 kg)	lbs (N)	150 (667)
Carbon Black Content	ASTM D 1603*/4218	20,000 lb (9,000 kg)	%	2.0 – 3.0
Carbon Black Dispersion	ASTM D 5596	45,000 lb (20,000 kg)		Note ²
Asperity Height	ASTM D 7466	second roll	mil (mm)	16 (0.41)
Notched Constant Tensile Load	ASTM D 5397, Appendix	200,000 lb (90,000 kg)	hr	500
Oxidative Induction Time	ASTM D 3895, 200 °C; O ₂ , 1 atm	200,000 lb (90,000 kg)	mins	>100

Notes:

(1) Leak Location may have an overall ash content greater than 3.0% due to the conductive layer. These values apply to the nonconductive 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 textured 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 D746.

- *Modified.

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