

TITAN 100HDL

100mil HDPE LEAK LOCATION GEOMEMBRANE



Titan HDL Leak Location liner is a smooth, 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 be easily 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)	100 (2.50) 90 (2.25)
Density	ASTM D 1505	200,000 lbs (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 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) % %	380 (67) 210 (37) 700 12
Tear Resistance	ASTM D 1004	45,000 lbs (20,000 kg)	lb (N)	70 (311)
Puncture Resistance	ASTM D 4833	45,000 lbs (20,000 kg)	lb (N)	180 (800)
Carbon Black Content	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 ⁽¹⁾
Notch Constant Tensile Load	ASTM D 5397, Appendix	200,000 lbs (90,000 kg)	hr	300
Oxidative Induction Time	ASTM D 3895, 200°C; O ₂ , 1 atm	200,000 lbs (90,000 kg)	min	>100
TYPICAL ROLL DIMENSIONS				
Roll Length ⁽²⁾			ft (m)	340 (104)
Roll Width ⁽²⁾			ft (m)	22.5 (6.86)
Roll Area ⁽²⁾			ft ² (m ²)	7,650 (711)

Notes:

- (1) Dispersion only applies to near spherical agglomerates. 9 of 10 views shall be category 1 or 2. No more 1 view from category 3.
- (2) Roll Lengths and widths have a tolerance of ±1%.
 - o HDPE Smooth is available in rolls weighing approximately 4,000 lb (1,800 kg).
 - o 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.
 - o *Modified

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TITAN ENVIRONMENTAL CONTAINMENT

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