TITAN 100HD SST/DST

100mil HDPE TEXTURED GEOMEMBRANE

TITAN
BUILD YOUR LEGEND

Titan HD is a co-extruded textured high-density polyethylene (HDPE) geomembrane available on one or both sides. It is manufactured with the highest quality resin specifically formulated for flexible geomembranes. This product is used in applications that require increased frictional resistance, excellent chemical resistance and endurance properties. This product specification meets GRI-GM13. Titan HD is a coextruded, high-density polyethylene (HDPE) geomembrane available textured on one or both sides (Single Sided Textured - SST or Double Sided Textured - DST).

TESTED PROPERTY	TEST METHOD	FREQUENCY	UNIT ENGLISH (METRIC)	VALUE ENGLISH (METRIC)
Thickness Lowest individual reading	ASTM D 5994	every roll	mil (mm)	100 (2.50) 90 (2.25)
Density	ASTM D 1505	200,000 lb (90,000 kg)	g/cm³ (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.

Titan Environmental Containment

Toll free: 1-866-327-1957 | info@titanenviro.com | **TitanEnviro.com**

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