

TITAN 40HD

40mil SMOOTH HDPE GEOMEMBRANE



Titan HD is a smooth high-density polyethylene (HDPE) geomembrane manufactured with the highest quality resin specifically formulated for flexible geomembranes. This product is used in applications that require excellent chemical resistance and endurance properties. This product specification meets GRI-GM13.

TESTED PROPERTY	TEST METHOD	FREQUENCY	UNIT ENGLISH (METRIC)	VALUE ENGLISH (METRIC)
Nominal Thickness	ASTM D 5199	every roll	mil (mm)	40 (1.0)
Density	ASTM D 792	200,000 lbs (90,000 kg)	g/cm ³ (min)	0.94
Tensile Properties (each direction) Yield Stress Break Stress Yield Strain 33mm Gauge Break Strain 50mm Gauge	ASTM D 6693	20,000 lbs (9,000 kg)	lb/in ppi (kN/m) % %	84 (15) 152 (27) 12 700
Tear Resistance	ASTM D 1004	45,000 lbs (20,000 kg)	lbs (N)	28 (125)
Stress Cracking	ASTM D 5397	45,000 lbs (20,000 kg)	Hours	500
Puncture Resistance	ASTM D 4833	45,000 lbs (20,000 kg)	lbs (N)	72 (320)
Carbon Black Content	ASTM D 6370	20,000 lbs (9,000 kg)	%	2.0 – 3.0
Carbon Black Dispersion	ASTM D 5596	45,000 lbs (20,000 kg)	Note ¹	Note ¹
Notched Constant Tensile Load	ASTM D 5397, Appendix	200,000 lbs (90,000 kg)	hr	500
Oxidative Induction Time	ASTM D 3895, 200 °C; O ₂ , 1 atm	200,000 lbs (90,000 kg)	min	>100

NOTES:

1. 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.
2. Roll Lengths and widths have a tolerance of ±1%. HDPE Smooth is available in rolls weighing approximately 4,000 lb (1,800 kg). All geomembranes have dimensional stability of ±2% when tested according to ASTM D 1204 and LTB of <-77 ° when tested according to ASTM D 746

*Modified

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