

TITAN 40MIL LLDPE

LLDPE Smooth geomembrane



Titan's 40mil polyethylene is produced from virgin polyethylene resins. It has outstanding flexibility and elongation characteristics. Titan's 40mil polyethylene contains approximately 97.5% polymer and 2.5% carbon black, antioxidants, and heat stabilizers, and contains no additives, fillers, or extenders. Titan's 40mil polyethylene does not contain plasticizers which can migrate to the surface, causing premature aging. Manufactured from virgin polyethylene resins, it is designed to provide a high-quality, economical geomembrane.

TESTED PROPERTY	TEST METHOD	UNIT ENGLISH (METRIC)	VALUE ENGLISH (METRIC)
Thickness	ASTM D 5199	mil (mm)	40 (1.02) ± 10%
Density	ASTM D 1505	g/cm ³	≤ 0.939
Tensile Strength – Strength at Break	ASTM D 6693	lb/in (kN/m)	185 (32)
Tensile Strength – Elongation at Break	ASTM D 6693	%	800
Tear Resistance	ASTM D 1004	lb (N)	22 (249)
Puncture Resistance	ASTM D 4833	lb (N)	56 (249)
Dimensional Stability	ASTM D 1204	%	< 2
Carbon Black Content	ASTM D 4218	%	2.0 – 3.0
Carbon Black Dispersion	ASTM 5596	Note ¹	Note ¹
Hydrostatic Resistance	ASTM D 751	psi	250
Low Temp. Impact Failure	ASTM D 746	° F	< -94
Bonded Seam Strength	ASTM D 4645	lbf/in width	80
Seam Peel Adhesion	AST MD 4645	lbf/in width	69

NOTE:

(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 %. LLDPE is available in rolls weighing approximately 3,900 lb. All LLDPE 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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