

Titan 20mil LLDPE

LLDPE Smooth Geomembrane



Titan's 20mil polyethylene is produced from virgin polyethylene resins. It has outstanding flexibility and elongation characteristics. Titan's 20mil Polyethylene contains approximately 97.5% polymer and 2.5% carbon black, antioxidants, and heat stabilizers, and contains no additives, fillers, or extenders. Titan's 20mil 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)	20 ± 10% (0.5)
Density	ASTM D 1505	g/cm ³	0.920
Tensile Strength – Strength at Break	ASTM D 6693	lb/in-width (kN/m)	76 (13)
Tensile Strength – Elongation at Break	ASTM D 6693	%	800
Tear Resistance	ASTM D 1004	lb (N)	11 (49)
Puncture Resistance	ASTM D 4833	lb (N)	30 (130)
Dimensional Stability	ASTM D 1204	%	±2
Carbon Black Content	ASTM D 1603	%	> 2.0 / >2.5
Hydrostatic Resistance	ASTM D 751	psi (kPa)	118 (814)
U.V. Resistance GRI-GM-11	ASTM D 5885	%	35
Low Temp. Impact Failure	ASTM D 746	°F (°C)	< -94 (-70)
Shop Shear Seam Strength	ASTM D 4545	lb/in (kN/m)	40 (7.0)
Shop Peel Seam Strength	ASTM D 4545	lb/in (kN/m)	30 (5.3)

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