

# TITAN 40mil LLDPE

## 40mil 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)	41.5 (1.04)
Density	ASTM D 1505	g/cm <sup>3</sup>	0.939
Tensile Strength – Strength at Break	ASTM D 6693	lb/in-width (kN/m)	185 (32)
Tensile Strength – Elongation at Break	ASTM D 6693	%	875
Tear Resistance	ASTM D 1004	lb	27
Puncture Resistance	ASTM D 4833	lb	75
Dimensional Stability	ASTM D 1204	%	< 2
Carbon Black Content	ASTM D 1603	%	> 2.5
Hydrostatic Resistance	ASTM D 751	psi	250
Volatile Loss Method A	ASTM D 1203	%	< 1
Low Temp. Impact Failure	ASTM D 746	°F	< -94
Resistance to Soil Burial	ASTM D 3083	%	± 10
Environmental Stress Crack Resistance Hours to Failure	ASTM D 5397	hrs	> 400
Perms	ASTM E96	grains/ft <sup>2</sup> /hr/in Hg.	0.022
Bonded Seam Strength	ASTM D 4645	lbf/in width	80
Seam Peel Adhesion	AST MD 4645	lbf/in width	69

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