

# TITAN 40-100 mil LLDPE

## SMOOTH GEOMEMBRANE



Our smooth linear low-density polyethylene (LLDPE) geomembrane is manufactured with the highest quality resin specifically formulated for flexible geomembranes. This product is used in applications that require increased flexibility and elongation properties where differential or localized subgrade settlements may occur such as landfill closure applications.

TESTED PROPERTY	TEST METHOD	UNIT ENGLISH (METRIC)	VALUE ENGLISH (METRIC)			
			40 mil	60 mil	80 mil	100 mil
Thickness Lowest individual reading	ASTM D 5199	mil	40 36	60 54	80 72	100 90
Density (max.)	ASTM D 1505	g/cm <sup>3</sup>	0.939	0.939	0.939	0.939
Tensile Properties (each direction) Strength at Break Elongation at Break	ASTM D 6693  Type IV Dumbbell, 2 ipm G.L.2.0 in	lb/in-width %	152 800	228 800	304 800	380 800
Tear Resistance	ASTM D 1004	lb	22	33	44	55
Puncture Resistance	ASTM D 4833	lb	56	84	112	140
Carbon Black Content (Range)	ASTM D 1603*/4218	%	2.0-3.0	2.0-3.0	2.0-3.0	2.0-3.0
Carbon Black Dispersion	ASTM D 5596	%/hrs	Note <sup>(1)</sup>	Note <sup>(1)</sup>	Note <sup>(1)</sup>	Note <sup>(1)</sup>
Oxidative Induction Time	ASTM D 3895, 200°C; O <sub>2</sub> , 1 atm	mins	>100	>100	>100	>100
<b>TYPICAL ROLL DIMENSIONS</b>						
Roll Length(2)		ft	870	560	430	340
Roll Width(2)		ft	22.5	22.5	22.5	22.5
Roll Area		ft <sup>2</sup>	19,575	12,600	9,675	7,650

**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 %.
- GSE UltraFlex is available in rolls weighing approximately 3,900 lb.
- All GSE 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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