

TITAN 40-100 MIL LLDPE

TEXTURED GEOMEMBRANE



Our textured geomembrane is a co-extruded linear low-density polyethylene (LLDPE) geomembrane with texture available on one or both sides. It is manufactured from the highest quality resin specifically formulated for flexible geomembranes. This product is used in applications that require increased frictional resistance, 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 ³	0.939	0.939	0.939	0.939
Tensile Properties (both directions) Strength at Break Elongation at Break	ASTM D 6693 Type IV Dumbbell, 2 ipm G.L.2.0 in	lb/in-width %	60 250	90 250	120 250	150 250
Tear Resistance	ASTM D 1004	lbs (N)	22	33	44	55
Puncture Resistance	ASTM D 4833	lbs (N)	44	66	88	110
Carbon Black Content	ASTM D 1603*/421 8	% (range)	2.0-3.0	2.0-3.0	2.0-3.0	2.0-3.0
Carbon Black Dispersion (Category)	ASTM D 5596	%/hrs	Note ¹	Note ¹	Note ¹	Note ¹
Asperity Height	ASTM D 7466	mil	18	18	18	18
Oxidative Induction Time	ASTM D 3895, 200°C; O ₂ , 1 atm	minutes	>100	>100	>100	>100
TYPICAL ROLL DIMENSIONS						
Roll Length		ft (m)	700 800	520 540	400 410	330 330
Roll Width ²		ft (m)	22.5	22.5	22.5	22.5
Roll Area ²		ft ²	15,750 18,000	11,700 12,150	9,000 9,225	7,425 7,425

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%.
- 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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