

SuperGeo™ LL Textured



Textured Geomembranes
Meets GRI GM17 Specifications

Properties	Test Method	Minimum Average Values			
		30 mil	40 mil	60 mil	80 mil
Thickness, mil (min. ave.) • Lowest individual reading 8 out of 10 values • Lowest individual reading for any of 10 values	ASTM D5199	Nom. (-5%) -10% -15%	Nom. (-5%) -10% -15%	Nom. (-5%) -10% -15%	Nom. (-5%) -10% -15%
Asperity Height mils (1) (2) (min. ave.)	ASTM D7466	16	16	16	16
Density g/ml (max.)	ASTM D1505	.939	.939	.939	.939
Tensile Properties (3) (min. ave.) • Strength at Break, lb/in • Elongation at Break, %	ASTM D6693, Type IV	45 (9) 250	60 (11) 250	90 (16) 250	120 (21) 250
2% Modulus – lb/in. (max.)	ASTM D5323	1800	2400	3600	4800
Tear Resistance, lb (N) (min. ave.)	ASTM D1004	16 (70)	22 (100)	33 (150)	44 (200)
Puncture Resistance, lb (N) (min. ave.)	ASTM D4833	33 (150)	44 (200)	66 (300)	88 (400)
Axi-Symmetric Break Resistance Strain - % (min.)	ASTM D5617	30	30	30	30
Carbon Black Content, %	ASTM D1603	2.0 – 3.0	2.0 – 3.0	2.0-3.0	2.0 – 3.0
Carbon Black Dispersion	ASTM D5596	Note (4)	Note (4)	Note (4)	Note (4)
Oxidative Induction Time (OIT) (5) (a) Standard OIT (min. ave.) ----- or ----- (b) High Pressure OIT (min. ave.)	ASTM D3895 ASTM D5885	100 400	100 400	100 400	100 400
Oven Aging at 85°C (a) Standard OIT (min. ave.) - % retained after 90 days ----- or ----- (b) High Pressure OIT (min. ave.) - % retained after 90 days	ASTM D5721 ASTM D3895 ASTM D5885	35 60	35 60	35 60	35 60
UV Resistance (6) (a) Standard OIT (min. ave.) ----- or ----- (b) High Pressure OIT (min. ave.) - % retained after 1600 hrs (8)	ASTM D7238 ASTM D3895 ASTM D5885	N.R. (7) 35	N.R. (7) 35	N.R. (7) 35	N.R. (7) 35
Standard Roll Dimensions					
Roll Length (9), ft		970	750	520	
Roll Width (9), ft		21.5	21.5	21.5	
Roll Area ² , ft		20,855	16,125	11,180	

- (1) Of 10 readings; 8 of 10 must be ≥ 14 mils, and lowest must be ≥ 12 mils; also see note
- (2) Alternate the measurement side for double sided textured sheet
- (3) Machine direction (MD) and cross machine direction (TD) average values should be on the basis of 5 test specimens each direction.
- (4) Carbon black dispersion (only near spherical agglomerates) for 10 different views:
• 9 Categories 1 or 2 and 1 Category 3
- (5) The manufacturer has the option to select either one of the OIT methods listed to evaluate the antioxidant content in the geomembrane.
- (6) The condition of the test should be 20 hr. UV cycle at 75°C followed by 4 hr. condensation at 60°C.
- (7) Not recommended since the high temperature of the Std-OIT test produces an unrealistic result for some of the antioxidants in the UV exposed samples.
- (8) UV resistance is based on percent retained value regardless of the original HP-OIT value
- (9) Roll lengths and widths will be ± 1% of the stated dimensions.

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MILES CITY, MT
184 Hwy 59 N
Miles City, MT . 59301
800.488.3592
406.234.1680

MIDLAND, TX
11701 Co. Rd. 125 W
Midland, TX . 79711
800.583.6005
432.563.4005

PLEASANTON, TX
4300 S Hwy 281
Pleasanton, TX . 78064
830.569.4005

HOUSTON, TX
8615 Golden Spike Ln
Houston, TX . 77086
800.364.7688
281.272.1660



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