

# SuperGeo™ HD Textured



Smooth Geomembranes  
Meets GRI GM13 Specifications

Properties	Test Method	Minimum Average Values			
		0.75	1.00	1.50	2.00
Thickness (mm)		0.75 mm	1.00 mm	1.50 mm	2.00 mm
Lowest individual reading	ASTM D5199	-10%	-10%	-10%	-10%
Lowest individual for any of the 10 values		-15%	-15%	-15%	-15%
Asperity Height mils (min. ave.) (1)	ASTM D 7466	16	16	16	16
Minimum Density, g/cm <sup>3</sup>	ASTM D1505	.940	.940	.940	.940
Tensile Properties (2) (Each Direction)					
Strength at Break (N)	ASTM D6693, Type IV	8	10	16	213
Strength at Yield (N)		11	15	22	29
Elongation at Break (%)		100	100	100	100
Elongation at Yield (%)		12	12	12	12
Tear Resistance (N)	ASTM D1004	93	125	187	249
Puncture Resistance (N)	ASTM D4833	200	267	400	534
Stress Crack Resistance	D 5397	500 hr.	500 hr.	500 hr.	500 hr.
Carbon Black Content (%) (Range)	ASTM D1603 or D 4218	2.0 – 3.0	2.0 – 3.0	2.0 – 3.0	2.0 – 3.0
Carbon Black Dispersion	ASTM D5596	Note (3)	Note (3)	Note (3)	Note (3)
Oxidative Induction Time (OIT) (min. ave.) (4)					
(a) Standard OIT -----OR-----	D 3895	100 min	100 min	100 min	100 min
(b) High Pressure OIT	D 5885	400 min	400 min	400 min	400 min
Oven Aging at 85°C (4)	D 5721				
(a) Standard OIT (min. ave.) – % retained after 90 days -----OR-----	D 3895	55%	55%	55%	55%
(b) High Pressure OIT (min. ave.) - % retained after 90 days	D5885	80%	80%	80%	80%
UV Resistance (5)	D 7238				
(a) Standard OIT (min. ave.) -----OR-----	D 3895	N.R. (6)	N.R. (6)	N.R. (6)	N.R. (6)
(b) High Pressure OIT (min. ave.) – retained after 1600 hrs (7)	D 5885	50%	50%	50%	50%
<b>Standard Roll Dimensions</b>					
Roll Length (8) , meters.		332.23	248.41	164.59	121.92
Roll Width (8) , meters.		6.553	6.553	6.553	6.553
Roll Area, meters. <sup>2</sup>		2177.10	1863.73	1078.55	798.94

- (1) Of 10 readings; 8 of 10 must be ≥ 0.35 mm, and lowest individual reading must be ≥ 0.30 mm; also see Note 3
- (2) Machine direction (MD) and cross machine direction (XMD) average values should be on the basis of 5 test specimens each direction.  
Yield elongation is calculated using a gage length of 1.3 inches.  
Break elongation is calculated using a gage length of 2.0 in.
- (3) Carbon black dispersion (only near spherical agglomerates) for 10 different views: 9 in Categories 1 or 2 and 1 in Category 3.
- (4) Either of the OIT methods listed can be used by the manufacturer to evaluate the antioxidant content in the geomembrane.
- (5) The condition of the test should be 20 hr. UV cycle at 75°C followed by 4 hr. condensation at 60°C.
- (6) 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.
- (7) UV resistance is based on percent retained value regardless of the original HP-OIT value.
- (8) Roll Lengths and widths will be +- 1% of the stated dimensions.

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