GPS HD Textured HDPE 30,40,60,80 mil

Product Description

GPS HD Textured liners and covers are HDPE geomembrane sheets that are textured by a nitrogen injection. This surface texture gives the material high friction resistance, which keeps soil in place on slopes and improves traction on drilling pads for crew safety. Localized settlement of fill material on covered slopes is mitigated by increasing the coefficient of friction. Our textured membranes are manufactured with prime resins and have outstanding frictional resistance, chemical resistance, mechanical properties and UV resistance. Meets GRI GM13 Specifications.

Applications

- ✓ Landfills
- ✓ Reserve Pits
- ✓ Frac Pits
- ✓ Under Rig Liners
- ✓ Retention Ponds
- ✓ Fresh Water Pits
- ✓ Flowback Pits
- ✓ Secondary Containment

Global PLASTIC SHEETING

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GPS HD Textured

HDPE 30,40,60,80 mil

Manufactured In:

ISO 9001:2008
CERTIFIED MANAGEMENT SYSTEM

PROPERTIES	TEST METHOD	MINIMUM AVERAGE VALUES			
THICKNESS (MM)	ASTM D5199	30	40	60	80
LOWEST INDIVIDUAL READING		-10%	-10%	-10%	-10%
LOWEST INDIVIDUAL FOR ANY OF THE 10 VALUES		-15%	-15%	-15%	-15%
ASPERITY HEIGHT MILS (MIN. AVE.) [1]	ASTM D7466	16	16	16	16
MINIMUM DENSITY, G/CM[3]	ASTM D1505	.940	.940	.940	.940
TENSILE PROPERTIES [2] (EACH DIRECTION)	ASTM D6693, TYPE IV				
STRENGTH AT BREAK (LBS.) (N/MM)		45 (8)	60 (10)	90 (16)	120 (213)
STRENGTH AT YIELD (LBS.) (N/MM)		63 (11)	84 (15)	126 (22)	168 (29)
ELONGATION AT BREAK (%)		100	100	100	100
ELONGATION AT YIELD (%)		12	12	12	12
TEAR RESISTANCE (LBS.) (N)	ASTM D1004	21 (93)	28 (125)	42 (187)	56 (249)
PUNCTURE RESISTANCE (N)	ASTM D4833	45 (200)	60 (267)	90 (400)	120 (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——— (B) HIGH PRESSURE OIT	D 3895 D 5885	100 MIN 400 MIN	100 MIN 400 MIN	100 MIN 400 MIN	100 MIN 400 MIN
OVEN AGING AT 85°C [4] (A) STANDARD OIT (MIN. AVE.) – % RETAINED AFTER 90 DAYS ———-OR——— (B) HIGH PRESSURE OIT (MIN. AVE.) – % RETAINED AFTER 90 DAYS	D 5721 D 3895 D 5885	55% 80%	55% 80%	55% 80%	55% 80%
UV RESISTANCE [5] (A) STANDARD OIT (MIN. AVE.) ———-OR——— (B) HIGH PRESSURE OIT (MIN. AVE.) – RETAINED AFTER 1600 HRS [7]	D 7238 D 3895 D 5885	N.R. (6) 50%	N.R. (6) 50%	N.R. (6) 50%	N.R. (6) 50%
STANDARD ROLL DIMENSIONS					
ROLL LENGTH [8] , FT.		1,090	815	540	400
ROLL WIDTH [8] , FT.		21.5	21.5	21.5	21.5
ROLL AREA, FT.		23,435	17,523	11,610	8,600

[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 75C followed by 4 hr. condensation at 60C.

[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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