

High Performance GSE Leak Location Textured Geomembrane



AT THE CORE:
An HDPE geomembrane that contains an integrated, specially formulated conductive layer on the bottom surface.

High Performance GSE Leak Location Textured is a co-extruded high density polyethylene (HDPE) geomembrane specifically designed to be used in the most stringent applications. A textured surface is available on one or both sides for applications that require increased frictional resistance. This product incorporates an electrically conductive bottom layer which can be spark tested for leak location in a safe and effective manner per ASTM D 7240. It contains only the finest raw materials to enable exceptional elasticity, environmental stress crack resistance, and excellent multi-axial break resistance. Included in this product is a custom additive package that has been engineered to enable extended geomembrane lifetime and improved resilience in elevated temperatures and in harsh chemical environments. In addition to a superior UV stabilization package, a well-dispersed premium grade of carbon black is utilized to deliver excellent UV resistance in exposed applications.

Product Specifications

These product specifications exceed GRI GM13

Tested Property	Test Method	Frequency	Minimum Average Value			
			40 mil	60 mil	80 mil	100 mil
Thickness, mil Lowest individual reading	ASTM D 5994	every roll	40 36	60 54	80 72	100 90
Density, g/cm ³	ASTM D 1505	200,000 lb	0.94	0.94	0.94	0.94
Tensile Properties (each direction) Strength at Break, lb/in-width Strength at Yield, lb/in-width Elongation at Break, % Elongation at Yield, %	ASTM D 6693, Type IV Dumbbell, 2 ipm G.L. 2.0 in G.L. 1.3 in	20,000 lb	75 90 200 13	115 132 200 13	155 177 200 13	230 225 200 13
Tear Resistance, lb	ASTM D 1004	45,000 lb	32	45	60	75
Puncture Resistance, lb	ASTM D 4833	45,000 lb	95	130	160	190
Multi-axial Break Resistance, %	ASTM D 5617	per formulation	15	15	15	15
Carbon Black Content ⁽¹⁾ , % (Range)	ASTM D 1603 ² /4218	20,000 lb	2.0 - 3.0	2.0 - 3.0	2.0 - 3.0	2.0 - 3.0
Carbon Black Dispersion	ASTM D 5596	45,000 lb	Note ⁽²⁾	Note ⁽²⁾	Note ⁽²⁾	Note ⁽²⁾
Asperity Height ⁽³⁾ , mil	ASTM D 7466	second roll	18	18	18	18
Notched Constant Tensile Load ⁽⁴⁾ , hr	ASTM D 5397, Appendix	200,000 lb	1,000	1,000	1,000	1,000
Oxidative Induction Time, mins	ASTM D 3895, 200°C; O ₂ , 1 atm	200,000 lb	>160	>160	>160	>160
High Pressure Oxidative Induction Time, mins	ASTM D 5885, 150°C; O ₂ , 3.4 MPa	per formulation	>800	>800	>800	>800
Oven aging at 85°C High Pressure OIT (min. avg.) - % retained after 90 days	ASTM D 5721 ASTM D 5885	per formulation	80	80	80	80
UV Resistance High Pressure OIT (min. avg.) - % retained after 1,600 hours	GM 11 ASTM D 5885	per formulation	80	80	80	80
TYPICAL ROLL DIMENSIONS						
Roll Length ⁽⁵⁾ , ft	Double-Sided Textured Single-Sided Textured		700 780	520 540	400 410	330 330
Roll Width ⁽⁵⁾ , ft			22.5	22.5	22.5	22.5
Roll Area, ft ²	Double-Sided Textured Single-Sided Textured		15,750 17,550	11,700 12,150	9,000 9,225	7,425 7,425

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Product Specifications [continued]

NOTES:

- ⁽¹⁾High Performance GSE Leak Location may have an overall ash content greater than 3.0% due to the conductive layer. These values apply to the non-conductive black layer only.
- ⁽²⁾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.
- ⁽³⁾Consult GSE for information regarding asperity heights exceeding the specified values.
- ⁽⁴⁾NCTL for High Performance GSE Leak Location Textured is conducted on representative smooth geomembrane samples.
- ⁽⁵⁾Roll lengths and widths have a tolerance of ±1%.
- High Performance GSE Leak Location Textured is available in rolls weighing approximately 4,000 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.

GSE is a leading manufacturer and marketer of geosynthetic lining products and services. We've built a reputation of reliability through our dedication to providing consistency of product, price and protection to our global customers.

Our commitment to innovation, our focus on quality and our industry expertise allow us the flexibility to collaborate with our clients to develop a custom, purpose-fit solution.



[DURABILITY RUNS DEEP] For more information on this product and others, please visit us at GSEworld.com, call 800.435.2008 or contact your local sales office.