High Performance GSE UltraFlex Leak Location Smooth Geomembrane

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High Performance GSE UltraFlex Smooth is a co-extruded linear low density polyethylene (LLDPE) geomembrane specifically designed to be used in the most stringent applications. It contains an integrated, specially formulated conductive layer on the bottom surface of the geomembrane. High Performance GSE UltraFlex Leak Location can be easily tested for post-installation damage utilizing spark testing technology per ASTM D 7240 and utilizing electrical resistivity testing per ASTM D 7002 on exposed geomembranes and ASTM D 7007 after water or cover soil placement. 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. This product is used in applications that require increased flexibility and elongation properties where differential or localized subgrade settlements may occur, such as in a landfill closure.

AT THE CORE:

An LLDPE geomembrane that is used in applications requiring increased flexibility and elongation properties, such as landfill closures and mining applications.

Product Specifications

These product specifications exceed GRI GM17

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Tested Property	Test Method	Frequency	Minimum Average Value				
			40 mil	60 mil	80 mil	100 mil	
Thickness, mil Lowest individual reading	ASTM D 5199	every roll	40 36	60 54	80 72	100 90	
Density, g/cm³	ASTM D 1505	200,000 lb	0.92	0.92	0.92	0.92	
Tensile Properties (each direction) Strength at Break, lb/in-width Elongation at Break, %	ASTM D 6693, Type IV Dumbbell, 2 ipm G.L. 2.0 in G.L. 1.3 in	20,000 lb	170 900	240 900	320 900	380 900	
Tear Resistance, Ib	ASTM D 1004	45,000 lb	22	33	44	55	
Puncture Resistance, Ib	ASTM D 4833	45,000 lb	70	100	130	155	
Multi-axial Break Resistance, %	ASTM D 5617	per formulation	90	90	90	90	
Carbon Black Content, % (Range)	ASTM D 1603*/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 ⁽¹⁾	Note ⁽¹⁾	Note ⁽¹⁾	Note ⁽¹⁾	
Oxidative Induction Time, mins	ASTM D 3895, 200°C; O ₂ , 1 atm	200,000 lb	>140	>140	>140	>140	
High Pressure Oxidative Induction Time, mins	ASTM D 5885, 150°C; O ₂ , 3.4 MPa	per formulation	>550	>550	>550	>550	
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	
JV Resistance High Pressure OIT (min. avg.) - % retained after 1,600 hours	GM 11 ASTM D 5885	per formulation	60	60	60	60	
	TYPICA	L ROLL DIMENSIO	NS				
Roll Length ⁽²⁾ , ft			870	560	430	340	
Roll Width ⁽²⁾ , ft			22.5	22.5	22.5	22.5	
Roll Area, ft²			19,575	12,600	9,675	7,650	

[Product specifications continued on back]





Product Specifications [continued]

NOTES

- "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.
- \bullet $^{(2)}\mbox{Roll}$ lengths and widths have a tolerance of $\pm1\%$
- High Performance GSE UltraFlex Smooth 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 1

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

