



GSE STANDARD PRODUCTS

Product Data Sheet

GSE CurtainWall Vertical Barrier System

GSE CurtainWall is a smooth, high quality, high density polyethylene (HDPE) geomembrane produced from specially formulated, virgin polyethylene resin. This polyethylene resin is designed specifically for flexible geomembrane applications. It contains approximately 97.5% polyethylene, 2.5% carbon black and trace amounts of antioxidants and heat stabilizers; no other additives, fillers or extenders are used. GSE CurtainWall has outstanding chemical resistance, mechanical properties, environmental stress crack resistance, dimensional stability and thermal aging characteristics. GSE CurtainWall has excellent resistance to UV radiation and is suitable for exposed conditions. GSE CurtainWall interlock is sealed using GSE HyperTite, a hydrophilic vulcanized expansive rubber gasket for the sealing joints.

Product Specifications

TESTED PROPERTY	TEST METHOD	FREQUENCY	MINIMUM VALUE	
Product Code			FAB600CVB	
Thickness, (minimum average) mil (mm)	ASTM D 5199	every roll	80 (2.00)	100 (2.50)
Lowest individual reading (-10%)			72 (1.80)	90 (2.30)
Density, g/cm ³	ASTM D 1505	200,000 lb	0.94	0.94
Tensile Properties (each direction)	ASTM D 6693, Type IV	20,000 lb		
Strength at Break, lb/in-width (N/mm)	Dumbell, 2 ipm		304 (53)	380 (67)
Strength at Yield, lb/in-width (N/mm)			168 (29)	210 (37)
Elongation at Break, %	G.L. 2.0 in (51 mm)		700	700
Elongation at Yield, %	G.L. 1.3 in (33 mm)		12	12
Tear Resistance, lb (N)	ASTM D 1004	45,000 lb	56 (249)	70 (311)
Puncture Resistance, lb (N)	ASTM D 4833	45,000 lb	144 (640)	180 (800)
Carbon Black Content, %	ASTM D 1603*/4218	20,000 lb	2.0	2.0
Carbon Black Dispersion	ASTM D 5596	45,000 lb	+Note 1	+Note 1
Notched Constant Tensile Load, hr	ASTM D 5397, Appendix	200,000 lb	300	300

NOTES:

- +Note 1: 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.
- GSE CurtainWall available in panels 3 ft - 25 ft wide.
- All GSE geomembranes have dimensional stability of ±2% when tested with ASTM D 1204 and LTB of ≤77° C when tested with ASTM D 746.
- These product specifications meet or exceed GRI GM13.
- *Modified.

GSE HyperTite

PROPERTY	VALUE	TEST METHOD
Expansion in Water	340% (1 day) & 720% (4 days)	ASTM D 471-75
Tensile Strength	Approx. 1,109 psi	ASTM D 412
Elongation at Break	Approx. 620%	ASTM D 412
Shore A Hardness	Approx. 53	ASTM D 2240
Specific Density	Approx. 1.27	ASTM D 471-75

NOTES:

- Dimensions: 1/4" diameter x 551 ft long
- The data shown above reflects typical results based on laboratory testing under controlled conditions. Reasonable variations from the data shown above may result.

DS004 CurtainWall R01/16/08

This information is provided for reference purposes only and is not intended as a warranty or guarantee. GSE assumes no liability in connection with the use of this information. Please check with GSE for current, standard minimum quality assurance procedures and specifications.

GSE and other trademarks in this document are registered trademarks of GSE Lining Technology, Inc. in the United States and certain foreign countries.

North America	GSE Lining Technology, Inc.	Houston, Texas	800.435.2008	281.443.8564	Fax: 281.230.6739
South America	GSE Lining Technology Chile S.A.	Santiago, Chile		56.2.595.4200	Fax: 56.2.595.4290
Asia Pacific	GSE Lining Technology Company Limited	Bangkok, Thailand		66.2.937.0091	Fax: 66.2.937.0097
Europe & Africa	GSE Lining Technology GmbH	Hamburg, Germany		49.40.767420	Fax: 49.40.7674234
Middle East	GSE Lining Technology-Egypt	The 6th of October City, Egypt		20.2.828.8888	Fax: 20.2.828.8889