

# 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.



**AT THE CORE:**  
A subsurface vertical barrier system designed to prevent lateral migration of contaminants and fluids.

## Product Specifications

Tested Property	Test Method	Frequency	Minimum	Value
Thickness, mil Lowest individual reading	ASTM D 5199	every roll	80 72	100 90
Density, g/cm <sup>3</sup>	ASTM D 1505	200,000 lb	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	304 168 700 12	380 210 700 12
Tear Resistance, lb	ASTM D 1004	45,000 lb	56	70
Puncture Resistance, lb	ASTM D 4833	45,000 lb	144	180
Carbon Black Content, %	ASTM D 1603*/4218	20,000 lb	2.0	2.0
Carbon Black Dispersion	ASTM D 5596	45,000 lb	Note <sup>(1)</sup>	Note <sup>(1)</sup>
Notched Constant Tensile Load, hr	ASTM D 5397, Appendix	200,000 lb	300	300

NOTES:

- <sup>(1)</sup>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.
- GSECurtainWall available in panels 3 ft - 34.5 ft wide.
- All CSE 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 of 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.

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](http://GSEworld.com), call 800.435.2008 or contact your local sales office.

