



The Pioneer Of Geosynthetics

S I N C E 1 9 7 2

## 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	
Thickness, (minimum average) mil (mm) Lowest individual reading (-10%)	ASTM D 5199	every roll	80 (2.00) 90 (2.30)	100 (2.50) 72 (1.80)
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 (N/mm) Strength at Yield, lb/in-width (N/mm) Elongation at Break, % Elongation at Yield, %	ASTM D 6693, Type IV Dumbbell, 2 ipm  G.L. 2.0 in (51 mm) G.L. 1.3 in (33 mm)	20,000 lb	304 (53) 168 (29) 700 12	380 (67) 210 (37) 700 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 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.