

GSE HD Smooth Geomembrane

GSE HD is a smooth high density polyethylene (HDPE) geomembrane manufactured with the highest quality resin specifically formulated for flexible geomembranes. This product is used in applications that require excellent chemical resistance and endurance properties.



AT THE CORE:

An HDPE geomembrane suitable for applications that require excellent chemical resistance and endurance properties.

Product Specifications

Tested Property	Test Method	Frequency	Value	
Thickness, mm (mil) ⁽¹⁾	ASTM D 5199	every roll	0.3 (12)	0.5 (20)
Density, g/cm ³	ASTM D 1505	every 5th roll	0.94	0.94
Tensile Properties (each direction) Strength at Break, N/mm-width (lb/in) Strength at Yield, N/mm-width (lb/in) Elongation at Break, % Elongation at Yield, %	ASTM D 6693, Type IV Dumbell, 2 ipm G.L. 51 mm (2.0 in) G.L. 33 mm (1.3 in)	every 5th roll	8 (46) 5 (29) 600 13	14 (80) 8 (46) 700 13
Tear Resistance, N (lb)	ASTM D 1004	every 5th roll	40 (9)	65 (15)
Puncture Resistance, N (lb)	ASTM D 4833	every 5th roll	105(24)	176(40)
Carbon Black Content, %	ASTM D 1603 / D 4218	every 5th roll	2.0-3.0	2.0-3.0
Carbon Black Dispersion	ASTM D 5596	every 5th roll	Note ⁽²⁾	Note ⁽²⁾
Notched Constant Tensile Load, hrs	ASTM D 5397, Appendix	90,000 kg	400	400
Oxidative Induction Time, minutes	ASTM D 3895, 200° C; O2, 1 atm	90,000 kg	>100	>100
TYPICAL ROLL DIMENSIONS				
Roll Length ⁽³⁾ , m (ft)			200 (656)	420 (1,378)
Roll Width ⁽³⁾ , m (ft)			71 (23.3)	71 (23.3)
Roll Area, m ² (ft ²)			1,420 (15,284)	2,982 (32,107)
40' Standard Container, roll			35	16

NOTES:

- ⁽¹⁾Minimum Average Thickness and the lowest individual reading: Nominal -10% .
- ⁽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⁾Roll lengths and width have a tolerance of ±1%.
- GSE HD provided in thickness of 0.5mm has an approximate weight of 1,400 kg (3,086 lb). GSE HD 0.3mm material is provided in rolls weighing approximately 413 kg (910 lb) each.
- 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.

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 66.2.937.0091 or contact your local sales office.