

GSE HD Smooth Geomembrane

METRIC

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	Minimum Average Value	
Product Code			HDS-030LM-BBB-Y-00	HDS-050LM-BBB-Y-00
Thickness, mm ⁽¹⁾	ASTM D 5199	every roll	0.3	0.5
Density, g/cm ³	ASTM D 1505 / D 792	every 5th roll	0.94	0.94
Tensile Properties (each direction)	ASTM D 6693, Type IV Dumbbell, 50 mm/min	every 5th roll		
Strength at Break, N/mm-width			8	14
Strength at Yield, N/mm-width			4	7
Elongation at Break, %	G.L. 51 mm		600	700
Elongation at Yield, %	G.L. 33 mm		12	12
Tear Resistance, N	ASTM D 1004	every 5th roll	40	65
Puncture Resistance, N	ASTM D 4833	every 5th roll	105	176
Carbon Black Content, % (Range)	ASTM D 4218 / D 1603	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, hours ⁽³⁾	ASTM D 5397, Appendix	90,000 kg	500	500
Oxidative Induction Time, minutes	ASTM D 3895, 200°C; O ₂ , 1 atm	90,000 kg	> 100	> 100
TYPICAL ROLL DIMENSIONS				
Roll Length ⁽⁴⁾ , m			200	420
Roll Width ⁽⁴⁾ , m			7.1	7.1
Roll Area, m ²			1,420	2,982
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 Categories 1 or 2. No more than 1 view from Category 3.
- ⁽³⁾ Stress crack resistance(NCTL) test is conducted on representative samples of the same resin formulation and in thicker gauge.
- ⁽⁴⁾ Roll lengths and widths have a tolerance of ±1%.
- GSE HD provided in thickness of 0.5mm has an approximate weight of 1,470 kg. GSE HD 0.3mm material is provided in rolls weighing approximately 430 kg each.
- 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.

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.