

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 used in applications that require excellent chemical resistance and endurance properties.

Product Specifications

Tested Property	Test Method	Frequency	Minimum Average Value					
			HDS-075AM-BBB-W-00	HDS-100AM-BBB-W-00	HDS-150AM-BBB-W-00	HDS-200AM-BBB-W-00	HDS-250AM-BBB-W-00	HDS-300AM-BBB-W-00
Product Code								
Thickness (minimum average), mm Lowest individual reading, mm	ASTM D 5199	every roll	0.75 0.68	1.00 0.90	1.50 1.35	2.00 1.80	2.50 2.25	3.00 2.70
Density, g/cm ³	ASTM D 1505 / D 792	every 5th roll	0.94	0.94	0.94	0.94	0.94	0.94
Tensile Properties (each direction) Strength at Break, N/mm-width Strength at Yield, N/mm-width Elongation at Break, % Elongation at Yield, %	ASTM D 6693, Type IV Dumbbell, 50 mm/min G.L. 51 mm G.L. 33 mm	every 5th roll	21 11 700 13	28 15 700 13	43 23 700 13	57 30 700 13	71 38 700 13	85 45 700 13
Tear Resistance, N	ASTM D 1004	every 5th roll	93	125	187	249	311	374
Puncture Resistance, N	ASTM D 4833	every 5th roll	263	352	530	670	840	980
Carbon Black Content, % (Range)	ASTM D 4218 / D 1603	every 5th roll	2.0 - 3.0	2.0 - 3.0	2.0 - 3.0	2.0 - 3.0	2.0 - 3.0	2.0 - 3.0
Carbon Black Dispersion	ASTM D 5596	every 5th roll	Note ⁽¹⁾	Note ⁽¹⁾	Note ⁽¹⁾	Note ⁽¹⁾	Note ⁽¹⁾	Note ⁽¹⁾
Notched Constant Tensile Load, hours	ASTM D 5397, Appendix	90,000 kg	500	500	500	500	500	500
Oxidative Induction Time, minutes	ASTM D 3895, 200°C; O ₂ , 1 atm	90,000 kg	> 100	> 100	> 100	> 100	> 100	> 100
TYPICAL ROLL DIMENSIONS								
Roll Length ⁽²⁾ , m			280	210	140	105	85	70
Roll Width ⁽²⁾ , m			7.0	7.0	7.0	7.0	7.0	7.0
Roll Area, m ²			1,960	1,470	980	735	595	490
40' Standard Container, roll			16	16	16	16	16	16

NOTES:

- ⁽¹⁾ 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.
- ⁽²⁾ Roll lengths and widths have a tolerance of ±1%.
- GSE HD Smooth is available in rolls weighing approximately 1,440 kg.
- 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.