

GSE HD Textured Geomembrane

Nominal

GSE HD Textured is a co-extruded textured high density polyethylene (HDPE) geomembrane available on one or both sides. It is manufactured from the highest quality resin specifically formulated for flexible geomembranes. This product is used in applications that require increased frictional resistance, excellent chemical resistance and endurance properties.



AT THE CORE:
An HDPE geomembrane used in applications that require increased frictional resistance, excellent chemical resistance and endurance properties.

Product Specifications

Tested Property	Test Method	Frequency	Nominal Value						
			20 mil	30 mil	40 mil	60 mil	80 mil	100 mil	120 mil
Thickness (minimum average), mil	ASTM D 5994	every roll	18	27	36	54	72	90	108
Density, g/cm ³	ASTM D 1505	200,000 lb	0.940	0.940	0.940	0.940	0.940	0.940	0.940
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	28	45	60	90	120	150	180
			40	63	84	126	168	210	252
			100	100	100	100	100	100	100
			12	12	12	12	12	12	12
Tear Resistance, lb	ASTM D 1004	45,000 lb	12	21	28	42	56	70	84
Puncture Resistance, lb	ASTM D 4833	45,000 lb	28	45	60	90	120	150	180
Carbon Black Content, % (Range)	ASTM D 1603*/4218	20,000 lb	2.0 - 3.0	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	45,000 lb	Note ⁽¹⁾	Note ⁽¹⁾	Note ⁽¹⁾	Note ⁽¹⁾	Note ⁽¹⁾	Note ⁽¹⁾	Note ⁽¹⁾
Asperity Height, mil	ASTM D 7466	second roll	10	16	18	18	18	18	18
Notched Constant Tensile Load ⁽²⁾ , hr	ASTM D 5397, Appendix	200,000 lb	300	300	300	300	300	300	300
Oxidative Induction Time, mins	ASTM D 3895, 200°C; O ₂ , 1 atm	200,000 lb	>100	>100	>100	>100	>100	>100	>100
TYPICAL ROLL DIMENSIONS									
Roll Length ⁽³⁾ , ft	Double-Sided Textured	1,200	830	700	520	400	330	270	
	Single-Sided Textured	1,460	1,080	880	600	450	370	290	
Roll Width ⁽³⁾ , ft		22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
Roll Area, ft ²	Double-Sided Textured	27,000	18,675	15,750	11,700	9,000	7,425	6,075	
	Single-Sided Textured	32,850	24,300	19,800	13,500	10,125	8,325	5,625	

NOTES:

- ⁽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.
- ⁽²⁾NCTL for GSE HD Textured is conducted on representative smooth membrane samples.
- ⁽³⁾Roll lengths and widths have a tolerance of ±1%.
- GSE HD Textured is available in rolls weighing approximately 4,000 lb.
- 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.
- *Modified.

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 800.435.2008 or contact your local sales office.