

GSE HD Textured Geomembrane

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



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

Product Specifications

These product specifications meet GRI GM13.

Tested Property	Test Method ⁽¹⁾	Frequency	Minimum Average Value				
			30 mil	40 mil	60 mil	80 mil	100 mil
Thickness, mm	ASTM D 5994	Every roll	0.75	1.0	1.50	2.0	2.5
Density, g/cm ³	ASTM D 792	90,000 kg	0.940	0.940	0.940	0.940	0.940
Tensile Properties (each direction) Strength at Break, N/mm Strength at Yield, N/mm Elongation at Break, (%) Elongation at Yield, (%)	ASTM D 6693, Type IV Dumbbell, 50 mm/min G.L. 50 mm G.L. 33 mm	9,000 kg	8 11 100 12	10 15 100 12	16 22 100 12	21 29 100 12	26 37 100 12
Tear Resistance, N	ASTM D 1004	20,000 kg	93	125	187	249	311
Puncture Resistance, N	ASTM D 4833	20,000 kg	200	267	400	534	667
Carbon Black Content, % (Range)	ASTM D 1603*/4218	9,000 kg	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	20,000 kg	Note ⁽²⁾	Note ⁽²⁾	Note ⁽²⁾	Note ⁽²⁾	Note ⁽²⁾
Asperity Height, mm	ASTM D 7466	Second roll	0.25	0.25	0.25	0.25	0.25
Notched Constant Tensile Load ⁽³⁾ , hr	ASTM D 5397, appendix	90,000 kg	400	400	400	400	400
Oxidative Induction Time (OIT) min	ASTM D 3895 (200°C, O ₂ , 1atm)	90,000 kg	100	100	100	100	100
Typical Roll Dimension							
Roll Length ⁽⁴⁾ , (m)			200	160	110	80	55
Roll Width ⁽⁴⁾ , (m)			7.0	7.0	7.0	7.0	7.0
Roll Area ⁽⁴⁾ , (m ²)			1400	1120	770	560	385
Standard Container, Roll			14	14	14	14	14

NOTES:

- ⁽¹⁾Lowest individual for 8 out of 10: -10%, lowest individual: -15%.
 - ⁽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⁾NCTL for GSE HD Textured is conducted on representative smooth geomembrane samples.
 - ⁽⁴⁾Roll lengths and widths have a tolerance of ± 1%.
 - GSE HD is available in rolls weighting approximately 1200 kg.
 - All HD 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 20.2.38288888 or contact your local sales office.

