

GSE White Textured Geomembrane

GSE White Textured is a coextruded textured high density polyethylene (HDPE) geomembrane available on one or both sides. It is manufactured with the highest quality resin specifically formulated for flexible geomembranes. GSE White Textured has a UV stabilized upper white^(*) surface that reflects light, improves damage detection, reduces wrinkles and subgrade desiccation. This product provides increased frictional resistance, excellent chemical resistance, and endurance properties. It is used in applications that require enhanced quality assurance measures over standard geomembranes.



AT THE CORE:
An HDPE geomembrane that provides increased frictional resistance as well as additional quality assurance. It is ideal for exposed applications.

Product Specifications

Tested Property	Unit	Test Method	Values		
Thickness ^(a) (Core Thickness)	mm	ASTM D 5994	1.0	1.5	2.0
Density (Minimum Average)	g/cm ³	DIN EN ISO 1183-1/A	0.94	0.94	0.94
Tensile Properties (each Direction) (Minimum Average)		DIN EN ISO 527-3 (Type 5; 100 mm/min; lo = 50 mm)			
Stress at Yield	MPa		16	16	16
Elongation at Yield	%		9	9	9
Stress at Break	MPa		10	10	10
Elongation at Break	%		100	100	100
Tear Resistance (Minimum Average)	N	DIN ISO 34-1/B (a)	130	210	280
Puncture Resistance (Minimum Average)	N	DIN EN ISO 12236	1,800	2,700	3,750
Dimensional Stability (each Direction)	%	DIN 53377 (120°C/1 h)	± 2	± 2	± 2
Melt Flow Index ^(b)	g/10 min	DIN EN ISO 1133 (190°C / 5.0 kg) (190°C / 2.16 kg)	≤ 3.0 ≤ 1.0	≤ 3.0 ≤ 1.0	≤ 3.0 ≤ 1.0
Stress Crack Resistance (NCTL) ^(c)	h	ASTM D 5397; Appendix	≥ 500	≥ 500	≥ 500
Oxidative Induction Time (OIT)	min	ASTM D 3895 (200°C; Pure O ₂ ; 1 atm)	≥ 100	≥ 100	≥ 100
Reference Property					
Low Temperature Brittleness	°C	ASTM D 746	- 77	- 77	- 77
Carbon Black Content (black layer) ^(d)	%	ASTM D 4218	2.0 - 3.0	2.0 - 3.0	2.0 - 3.0
Carbon Black Dispersion (black layer)	Category	ASTM D 5596	1/2 ^(e)	1/2 ^(e)	1/2 ^(e)
UV Resistance ^(f) HP-OIT retained after 1,600 hours ^(g)	%	ASTM D 7238 ASTM D 5885	≥ 50	≥ 50	≥ 50
Asperity Height (each Side) (Minimum Average)	mm	ASTM D 7466	0.40 ^(h)	0.40 ^(h)	0.40 ^(h)
Roll Width (approx.) ⁽ⁱ⁾	m	---	6.95		
Surface	---	---	single-sided or double-sided coextruded textured		

NOTES:

(*): Due to the production process the brightness of the white colour may vary.

(a): Minimum average: - 5%, lowest individual for 8 out of 10: -10%, lowest individual: - 15 % - Special thickness available upon request.

(b): Standard test conditions: 190°C / 5.0 kg.

(c): Note: NCTL is conducted on representative smooth geomembrane samples.

(d): GSE White Textured may have an overall ash content greater than 3.0% due to the white layer.

(e): 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.

(f): Test conditions: 20 hours UV cycle at 75°C followed by 4 hours condensation at 60°C.

(g): UV Resistance is based on percent retained value regardless of the original High Pressure-OIT value.

(h): 8 out of 10 readings must be ≥ 0.35 mm and lowest individual reading must be ≥ 0.30 mm.

(i): Roll widths and lengths have a tolerance of ± 1%.

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 other, please visit us at GSEworld.com, call 49.40.767420 or contact your local sales office.

