

# GSE White Smooth Geomembrane

GSE White is a smooth high density polyethylene (HDPE) geomembrane manufactured with the highest quality resin specifically formulated for flexible geomembranes. GSE White has a UV stabilized upper white surface that reflects light, improves damage detection, reduces wrinkles and subgrade desiccation. This product is used in applications that require enhanced quality assurance measures over standard geomembranes.



**AT THE CORE:**

An HDPE geomembrane with a UV stabilized upper white surface that reflects light, improves damage detection, reduces wrinkles, and lessens subgrade desiccation.

## Product Specifications

These product specifications meet GRI GM13.

Tested Property	Test Method	Frequency	Minimum Average Value				
			30 mil	40 mil	60 mil	80 mil	100 mil
Thickness, (min. average) mm Lowest Individual Reading (-10%)	ASTM D 5199	Every roll	0.75 0.68	1.0 0.9	1.5 1.35	2.0 1.8	2.5 2.25
Density, g/cm <sup>3</sup>	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	20 11 700 12	27 15 700 12	40 22 700 12	53 29 700 12	67 37 700 12
Tear Resistance, N	ASTM D 1004	20,000 kg	93	125	187	249	311
Puncture Resistance, N	ASTM D 4833	20,000 kg	240	320	480	640	800
Carbon Black Content <sup>(1)</sup> , % (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 <sup>(2)</sup>	Note <sup>(2)</sup>	Note <sup>(2)</sup>	Note <sup>(2)</sup>	Note <sup>(2)</sup>
Notched Constant Tensile Load, hr	ASTM D 5397, appendix	90,000 kg	500	500	500	500	500
Oxidative Induction Time (OIT) min	ASTM D 3895 (200°C, O <sub>2</sub> , 1atm)	90,000 kg	100	100	100	100	100
Typical Roll Dimension							
Roll Length <sup>(3)</sup> , (m)			280	225	150	110	85
Roll Width <sup>(3)</sup> , (m)			7.0	7.0	7.0	7.0	7.0
Roll Area <sup>(3)</sup> , (m <sup>2</sup> )			1960	1575	1050	770	595
Standard Container, Roll			15	15	15	15	15

NOTES:

- <sup>(1)</sup>GSE White may have an overall ash content greater than 3.0% due to the white layer. These values apply to the black layer only.
  - <sup>(2)</sup>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.
  - <sup>(3)</sup>Roll lengths and widths have a tolerance of ±1%
  - 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](http://GSEworld.com), call 20.2.38288888 or contact your local sales office.

