GSE UltraFlex White Smooth Geomembrane

METRIC

GSE UltraFlex White is a smooth linear low density polyethylene (LLDPE) geomembrane manufactured with the highest quality resin specifically formulated for flexible geomembranes. GSE UltraFlex 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 increased flexibility and elongation properties where differential or localized subgrade settlements may occur such as in a landfill closure application.



AT THE CORE:

An LLDPE geomembrane with a UV stabilized upper white surface used in applications that require increased flexibility and elongation properties, as well as additional quality assurance.

Product Specifications

These product specifications meet GRI GM17

Tested Property	Test Method	Frequency	Minimum Average Value			
			1.00 mm	1.50 mm	2.00 mm	2.50 mm
Thickness, mm Lowest individual reading	ASTM D 5199	every roll	1.00 0.90	1.50 1.35	2.00 1.80	2.50 2.25
Density, g/cm³ (max.)	ASTM D 1505	90,000 kg	0.939	0.939	0.939	0.939
Tensile Properties (each direction) Strength at Break, N/mm Elongation at Break, %	ASTM D 6693, Type IV Dumbbell, 50 mm/min G.L. 50 mm	9,000 kg	27 800	40 800	53 800	66 800
Tear Resistance, N	ASTM D 1004	20,000 kg	100	150	200	250
Puncture Resistance, N	ASTM D 4833	20,000 kg	250	370	500	620
Carbon Black Content ⁽¹⁾ , % (Range)	ASTM D 1603*/4218	9,000 kg	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⁾
Oxidative Induction Time, min	ASTM D 3895, 200°C; O ₂ , 1 atm	90,000 kg	>100	>100	>100	>100
TYPICAL ROLL DIMENSIONS						
Roll Length ⁽³⁾ , m			265	171	131	103
Roll Width ⁽³⁾ , m			6.86	6.86	6.86	6.86
Roll Area, m²			1,819	1,171	899	710

NOTES:

- ***GSE UltraFlex White may have an overall ash content greater than 3.0% due to the white layer. These values apply to the black layer only.
- ⁽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.
- $^{(3)}$ Roll lengths and widths have a tolerance of $\pm 1\%$.
- GSE UltraFlex White is available in rolls weighing approximately 1,800 kg.
- All GSE geomembranes have dimensional stability of $\pm 2\%$ 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.

