

GSE UltraFlex White Smooth Geomembrane

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	Unit	Test Method	Minimum Average Values				
			0.75	1.0	1.5	2.0	2.5
Thickness (nominal) Minimum Average Lowest individual for 8 out of 10 values Lowest individual for any of the 10 values	mm	ASTM D 5199	0.75 nom. -5% nom. -10% nom. -15%	1.0 nom. -5% nom. -10% nom. -15%	1.5 nom. -5% nom. -10% nom. -15%	2.0 nom. -5% nom. -10% nom. -15%	2.5 nom. -5% nom. -10% nom. -15%
Density (max.)	g/cm ³	ASTM D 1505	0.939	0.939	0.939	0.939	0.939
Tensile Properties (each Direction)		ASTM D 638/6639 Type IV; 50 mm/min; lo = 50 mm					
Strength at Break	N/mm		20	27	40	53	66
Elongation at Break	%		800	800	800	800	800
Tear Resistance	N	ASTM D 1004	70	100	150	200	250
Puncture Resistance	N	ASTM D 4833	190	250	370	500	620
Dimensional Stability (each Direction)	%	ASTM D 1204	± 2	± 2	± 2	± 2	± 2
Melt Flow Index ^(a)	g/10 min	ASTM D 1238 (190°C / 5.0 kg) (190°C / 2.16 kg)	≤ 3.0 ≤ 1.0	≤ 3.0 ≤ 1.0	≤ 3.0 ≤ 1.0	≤ 3.0 ≤ 1.0	≤ 3.0 ≤ 1.0
Oxidative Induction Time (OIT)	min	ASTM D 3895 (200°C; Pure O ₂ ; 1 atm)	100	100	100	100	100
Reference Property							
Low Temperature Brittleness	°C	ASTM D 746	- 77	- 77	- 77	- 77	- 77
Carbon Black Content ^(b) (Range)	%	ASTM D 4218*	2.0 - 3.0	2.0 - 3.0	2.0 - 3.0	2.0 - 3.0	2.0 - 3.0
Carbon Black Dispersion	Category	ASTM D 5596	Note ^(c)	Note ^(c)	Note ^(c)	Note ^(c)	Note ^(c)
Roll Width (approx.) ^(d)	m	---	6.95	6.95/7.5		7.5	
Surface	---	---	double-sided smooth				

NOTES:

(*) Due to the production process the brightness of the white color might vary.

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

(b): GSE UltraFlex White may have an overall ash content greater than 3.0% due to the white layer. The value does apply to the black layer.

(c): 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.

(d): 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.

