

GSE UltraFlex Smooth Geomembrane

GSE UltraFlex is a smooth linear low density polyethylene (LLDPE) geomembrane manufactured with the highest quality resin specifically formulated for flexible geomembranes. 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 that is used in applications requiring increased flexibility and elongation properties, such as landfill closures and mining applications.

Product Specifications

These product specifications meet or GRI GM17.

Tested Property	Test Method	Frequency	Minimum Average Value				
			20 mil	30 mil	40 mil	60 mil	80 mil
Thickness, (min. average) mm Lowest Individual Reading (-10%)	ASTM D 5199	Every roll	0.5 0.45	0.75 0.68	1.0 0.9	1.5 1.35	2.0 1.80
Density, g/cm ³ (max)	ASTM D 792	90,000 kg	0.939	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	13 800	20 800	27 800	40 800	53 800
Tear Resistance, N	ASTM D 1004	20,000 kg	50	70	100	150	200
Puncture Resistance, N	ASTM D 4833	20,000 kg	120	190	250	370	500
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 ⁽¹⁾	Note ⁽¹⁾	Note ⁽¹⁾	Note ⁽¹⁾	Note ⁽¹⁾
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 ⁽²⁾ , (m)			420	280	225	150	105
Roll Width ⁽²⁾ , (m)			4.0	7.0	7.0	7.0	7.0
Roll Area ⁽²⁾ , (m ²)			1,680	1,960	1,575	1050	735
Standard Container, Roll			15	15	15	15	15

NOTES:

- ⁽¹⁾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.
- ⁽²⁾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, call 20.2.3828.8888 or contact your local sales office.

