

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 | Test Method | Frequency | Minimum Average Value | | | |
|---|---|------------|-----------------------|---------------------|---------------------|---------------------|
| | | | 40 mil | 60 mil | 80 mil | 100 mil |
| Thickness, mil Lowest individual reading | ASTM D 5199 | every roll | 40 36 | 60 54 | 80 72 | 100 90 |
| Density, g/cm ³ (max.) | ASTM D 1505 | 200,000 lb | 0.939 | 0.939 | 0.939 | 0.939 |
| Tensile Properties (each direction) Strength at Break, lb/in-width Elongation at Break, % | ASTM D 6693, Type IV 'Dumbbell, 2 ipm G.L. 2.0 in | 20,000 lb | 152 800 | 228 800 | 304 800 | 380 800 |
| Tear Resistance, lb | ASTM D 1004 | 45,000 lb | 22 | 33 | 44 | 55 |
| Puncture Resistance, lb | ASTM D 4833 | 45,000 lb | 56 | 84 | 112 | 140 |
| Carbon Black Content ⁽¹⁾ , % (Range) | ASTM D 1603*/4218 | 20,000 lb | 2.0 - 3.0 | 2.0 - 3.0 | 2.0 - 3.0 | 2.0 - 3.0 |
| Carbon Black Dispersion | ASTM D 5596 | 45,000 lb | Note ⁽²⁾ | Note ⁽²⁾ | Note ⁽²⁾ | Note ⁽²⁾ |
| Oxidative Induction Time, mins | ASTM D 3895, 200°C; O ₂ , 1 atm | 200,000 lb | >100 | >100 | >100 | >100 |
| TYPICAL ROLL DIMENSIONS | | | | | | |
| Roll Length ⁽³⁾ , ft | | | 870 | 560 | 430 | 340 |
| Roll Width ⁽³⁾ , ft | | | 22.5 | 22.5 | 22.5 | 22.5 |
| Roll Area, ft ² | | | 19,575 | 12,600 | 9,675 | 7,650 |

NOTES:

- ⁽¹⁾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 ±1%.
- GSE UltraFlex White is available in rolls weighing approximately 3,900 lb.
- 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 800.435.2008 or contact your local sales office.