

GSE UltraFlex Geomembrane Spec Sheet



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.

Product Specifications

TESTED PROPERTY	TEST METHOD	FREQUENCY	VALUES ^(*)
Thickness ⁽¹⁾ , mm	ASTM D 5199	Every roll	1.00
Density, g/cm ³ (Max)	ASTM D 792	90,000 Kg	0.939
Tensile Properties(each direction)	ASTM D 6693, Type IV	9,000 Kg	
Strength at Break, N/mm	Dumbbell, 2 imp		26
Elongation at Break, (%)	G.L. 50 mm		750
Tear Resistance, N	ASTM D 1004	20,000 Kg	95
Puncture Resistance, N	ASTM D 4833	20,000 Kg	238
Carbon Black Content, % (Range)	ASTM D 4218	9,000 Kg	2.0 - 3.0
Carbon Black Dispersion	ASTM D 5596	20,000 Kg	Note ⁽²⁾
Oxidative Induction Time (OIT) min	ASTM D 3895(200 °C, O ₂ , 1atm)	90,000 Kg	> 100
TYPICAL ROLL DIMENSIONS			
Roll Length ⁽³⁾ , (m)		210	210
Roll Width ⁽³⁾ , (m)		5.8	7.0
Roll Area ⁽³⁾ , (m ²)		1218	1470
Standard Containcr, Roll		15	15

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NOTES:

- ^(*) All values-unless otherwise noted are Minimum average values.
- ⁽¹⁾ Minimum Average Thickness: Nominal -5%.
- ⁽²⁾ Dispersion only applied to near spherical agglomerates 9 of 10 views shall be Category 1 or 2. No more than 1view from Category 3.
- ⁽³⁾ Roll lengths and widths have a tolerance of ± 1%
- GSE HD is available in rolls weighting approximately (1200 kg)
- All HD 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.

GSE UltraFlex is produced at GSE Lining Technology-Egypt.

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