

GSE HD Colortex Geomembrane (Green)

GSE HD Colortex^(*) is a high density polyethylene (HDPE) geomembrane that consists of two layers: a black primary layer and a colored textured surface^(**). It is manufactured from the highest quality resin specifically formulated for flexible geomembranes. It has a UV stabilized green upper surface that improves the aesthetics for the community. GSE HD Colortex provides an increased frictional resistance surface and is primarily used in exposed applications which can eliminate the need for cover soil and vegetative layers. The smooth edges (width approx. 15 cm) allow for an easier, quicker welding process.



AT THE CORE:
An HDPE geomembrane that provides increased frictional resistance and is ideal for exposed applications when aesthetics is an issue.

Product Specifications

Tested Property	Unit	Test Method	Values (***)		
Thickness ^(a)	mm	DIN EN ISO 9863-1	1.0	1.5	2.0
Density	g/cm ³	DIN EN ISO 1183-1/A	≥ 0.94	≥ 0.94	≥ 0.94
Tensile Properties (each Direction)		DIN EN ISO 527-3 (Type 5; 100 mm/min; lo = 50 mm)			
Stress at Yield	MPa		17 (16)	17 (16)	17 (16)
Elongation at Yield	%		10 (9)	11 (10)	11 (10)
Stress at Break	MPa		35 (26)	35 (26)	35 (26)
Elongation at Break	%		800 (700)	800 (700)	800 (700)
Tear Resistance	N	DIN ISO 34-1/B (a)	145 (130)	225 (210)	300 (280)
Puncture Resistance	N	DIN EN ISO 12236	2,850 (2,400)	4,150 (3,700)	5,450 (4,900)
Carbon Black Content	%	ASTM D 4218	2.0 - 3.0	2.0 - 3.0	2.0 - 3.0
Carbon Black Dispersion	Category	ASTM D 5596	1/2 ^(b)	1/2 ^(b)	1/2 ^(b)
Dimensional Stability (each Direction)	%	DIN 53377 (120°C/1 h)	± 2	± 2	± 2
Melt Flow Index ^(c)	g/10 min	DIN EN ISO 1133 (190°C / 5.0 kg) (190°C / 2.16 kg)	≤ 3.0 ≤ 1.0	≤ 3.0 ≤ 1.0	≤ 3.0 ≤ 1.0
Stress Crack Resistance (NCTL)	h	ASTM D 5397; Appendix	≥ 500	≥ 500	≥ 500
Oxidative Induction Time (OIT)	min	ASTM D 3895 (200°C; Pure O ₂ ; 1 atm)	≥ 100	≥ 100	≥ 100
Reference Property					
Low Temperature Brittleness	°C	ASTM D 746	- 77	- 77	- 77
UV Resistance ^(d)		ASTM D 7238			
HP-OIT retained after 1,600 hours ^(e)	%	ASTM D 5885	≥ 50	≥ 50	≥ 50
Roll Width ^(f)	m	---	6.95	6.95 / 7.5	
Surface	---	---	single-sided or double-sided textured		

NOTES:

- (*): RAL 6005 Moss-Green. The color stability is variable in time dependent on the selected color.
- (**): Due to the production process the brightness of the colored layer may vary.
- (***): All values - unless otherwise noted - are nominal values. Values in brackets are minimum values within the 95% confidence interval.
- (a): Tolerance ± 10%.
- (b): 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.
- (c): Standard test conditions: 190°C / 5.0 kg.
- (d): Test conditions: 20 hours UV cycle at 75°C followed by 4 hours condensation at 60°C.
- (e): UV Resistance is based on percent retained value regardless of the original High Pressure - OIT value.
- (f): 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.

