



GSE Conductive - Product Data Sheet

GSE Conductive is a smooth, patented, spark-testable high density polyethylene (HDPE) geomembrane that contains an integrated, specially formulated conductive layer on the bottom surface of the geomembrane. GSE Conductive can be easily tested for post-installation damage using equipment capable of performing spark testing in the field per ASTM D 7240. This product is used in applications that require post-installation testing on the liner system to increase the quality of the project. These product specifications meet or exceed GRI-GM 13.

Tested Property	Unit	Test Method	Minimum Average Values			
Thickness (Minimum Average)	mm	ASTM D 5199	1.0	1.5	2.0	2.5
Lowest Individual for 8 out of 10 Values			0.91	1.4	1.8	2.3
Density	g/cm ³	ASTM D 1505	0.94	0.94	0.94	0.94
Tensile Properties (each Direction)		ASTM D 6693; Type IV				
Strength at Yield	N/mm	50 mm/min	14	23	30	37
Elongation at Yield	%	lo = 33 mm	13	13	13	13
Strength at Break	N/mm	50 mm/min	26	42	57	71
Elongation at Break	%	lo = 51 mm	700	700	700	700
Tear Resistance	N	ASTM D 1004	124	186	257	324
Puncture Resistance	N	ASTM D 4833	378	556	711	867
Carbon Black Content ⁽¹⁾ (Range)	%	ASTM D 1603* / 4218	2.0 – 3.0	2.0 – 3.0	2.0 – 3.0	2.0 – 3.0
Carbon Black Dispersion	Category	ASTM D 5596	1 / 2 ⁽²⁾	1 / 2 ⁽²⁾	1 / 2 ⁽²⁾	1 / 2 ⁽²⁾
Stress Crack Resistance (NCTL)	h	ASTM D 5397, Appendix	1,000	1,000	1,000	1,000
Oxidative Induction Time (OIT)	min	ASTM D 3895 (200°C; Pure O ₂ ; 1 atm)	≥ 140	≥ 140	≥ 140	≥ 140
Reference Property	Unit	Test Method	Nominal Values			
Dimensional Stability (each Direction)	%	ASTM D 1204	± 2	± 2	± 2	± 2
Low Temperature Brittleness	°C	ASTM D 746	- 77	- 77	- 77	- 77
Roll Length (approx.) ⁽³⁾	m	---	265	171	131	104
Roll Width (approx.) ⁽³⁾	m	---	6.9			
Roll Area	m ²	---	1,819	1,171	899	711
Surface	---	---	double-sided smooth			

• GSE Conductive is available in rolls weighing about 1,769 kg.

(1): GSE Conductive may have an overall carbon black percentage above 3%. These values apply to the non-conductive black layers.

(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 widths and lengths have a tolerance of ± 1%.

* Modified.

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