TECHNICAL DATA SHEET

GSE HD 60mil/1.50mm G Black Conductive STEX-BOT

1110418

The GSE® HD Leak Location conductive series are produced from high-quality, high-density polyethylene (HDPE) formulations produced to meet or exceed the industry standard GRI GM 13 for HDPE geomembrane barriers. The co-extruded electrically-conductive bottom layer allows for leak detection testing of the installed geomembrane without the need for additional conductive layers or materials.

PROPERTY(1)	TEST METHOD	FREQUENCY	UNIT Imperial	Value
Nominal Thickness		-	mils	60
Thickness (min. avg.)	ASTM D5994	Every roll	mils	57
Lowest individual (8 values/10)			mils	54
Lowest individual (10 values/10)			mils	51
Asperity Height (min. avg.)	ASTM D7466	Every roll	mils	16
Textured side		-		Bottom
Resin Density	ASTM D1505	One per batch	g/cc	> 0.932
Melt Index - 190°C/2.16 kg (max.)	ASTM D1238	One per batch	g/10 min	1
Density	ASTM D792	Every 10 rolls	g/cm^3	≥ 0.940
Carbon Black Content	ASTM D4218	Every 2 rolls	%	2.0 - 3.0
Carbon Black Dispersion	ASTM D5596	Every 10 rolls	Category	Cat. 1 & Cat. 2
OIT - Standard (avg.) (6)	ASTM D8117	Per formulation	min	100
Tensile Properties (min. avg) (2)	ASTM D6693	Every 2 rolls		
Strength at Yield			lbs/in	132
Elongation at Yield			%	13
Strength at Break			ppi	132
Elongation at Break			%	150
Tear Resistance (min. avg.)	ASTM D1004	Every 5 rolls	lbf	45
Puncture Resistance (min. avg.)	ASTM D4833	Every 5 rolls	lbf	120
Dimensional Stability	ASTM D1204	Certified	%	± 2
Stress Crack Resistance (SP-NCTL)	ASTM D5397	One per batch	hr	500
Oven Aging - % retained after 90 days	ASTM D5721	Per formulation		
HP-OIT (min. avg.)	ASTM D5885		%	80
UV Resistance - % retained after 1,600 hr	ASTM D7238	Per formulation		
HP-OIT (min. avg.)	ASTM D5885		%	50
Low Temperature Brittleness	ASTM D746	Certified	°F	-106

SUPPLY SPECIFICATIONS(Roll dimensions may vary ±1%)

Roll Dimension - Width	-	ft	22.5
Roll Dimension - Length	-	ft	570
Area (Surface/Roll)	-	ft^2	12825
Application (10)	-	-	Conductive

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1. Testing frequency based on standard roll dimensions and one batch is approximately 180,000 lbs (or one railcar).
2. Machine Direction (MD) and Cross Machine Direction (XMD or TD) average values should be on the basis of 5 specimens each direction.
6. Modified. Samples should be taken on the core layer only.
10. The conductive layer may cause the carbon black content results to be higher than 3%, specified on the data sheet.

* All values are nominal test results, except when specified as minimum or maximum.
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