

# HYDRANET™ CONDUCTIVE COMPOSITE

HydraNet™ Conductive Composite is a revolutionary product that combines drainage and electrical leak detection capabilities into a single geocomposite, enabling effective testing of the primary geomembrane layer. HydraNet™ Conductive Composite is versatile excellent for water & wastewater management, energy, oil and gas, solid waste management, mining, vapor management and electrical leak detection.

The HydraNet™ layer enhances hydraulic performance by facilitating the lateral transmission of fluids and gases while incorporating the Geovolt® layer for effective electrical leak detection, thereby decreasing both the time and cost of installation and offering long-term benefits.

Nov 2023 Hydranet Geonet 220			
Property <sup>(1)</sup>	Test Method	Frequency	Value
Density	ASTM D 792	Per lot	0.94 g/cc
Melt Flow Index, max	ASTM D 1238	50,000 ft <sup>2</sup>	1.0 g/10 min
Thickness, min.avg.	ASTM D 5199	50,000 ft <sup>2</sup>	200 mil
Carbon Black, min.avg	ASTM 4218	50,000 ft <sup>2</sup>	2%
Tensile Strength, min.avg.	ASTM 7179	50,000 ft <sup>2</sup>	45 lb/in
Transmissivity <sup>(1)</sup>	ASTM D 4716	200,000 ft <sup>2</sup>	1.0 x 10 <sup>-3</sup> m <sup>2</sup> /sec

Geocomposite			
Property	Test Method	Frequency	Value
Adhesion Strength	ASTM D 7005	50,000 ft <sup>2</sup>	1 lb/in
Transmissivity <sup>(1)</sup>	ASTM D 4716	200,000 ft <sup>2</sup>	1.0 x 10 <sup>-4</sup> m <sup>2</sup> /sec

Geotextile			
Property <sup>(3)</sup>	Test Method	8E Geotextile (non-conductive)	8 oz GeoVolt® (conductive-face up)
Weight	ASTM D5261	8 oz/yd <sup>2</sup>	8 oz/yd <sup>2</sup>
Grab Tensile	ASTM D 4632	225 lbs	100 lbs
Grab Elongation	ASTM D 4632	50%	50%
CBR Puncture	ASTM D6241	600 lbs	300 lbs
Water Flow Rate	ASTM D4491	100 gal/min/ft <sup>2</sup>	7.5 gal/min/ft <sup>2</sup>
Surface resistivity	ASTM D4496	NA (non-conductive)	< 15,000 Ohm/sq
Roll Width		-	4.4 m/ 14.5 ft
Roll Length		-	54.8 m/180 ft

Notes:

- 1 as tested value, measured at a normal load of 10,000 psf and seating period of 15 min at a gradient of 0.1.
- 2 Geotextile component properties prior to lamination.
- 3 Roll widths and lengths have a tolerance of +1%.

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