

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.

July 2025 HydraNet® Geonet 220			
Property ⁽¹⁾	Test Method	Frequency	Value
Density	ASTM D 792	Per lot	0.94 g/cc
Melt Flow Index, max	ASTM D 1238	50,000 ft ²	1.0 g/10 min
Thickness, min.avg.	ASTM D 5199	50,000 ft ²	200 mil
Carbon Black, min.avg	ASTM 4218	50,000 ft ²	2%
Tensile Strength, min.avg.	ASTM 7179	50,000 ft ²	45 lb/in
Transmissivity ⁽¹⁾	ASTM D 4716	200,000 ft ²	1.0 x 10 ⁻³ m ² /sec

July 2025 Geocomposite			
Property	Test Method	Frequency	Value
Adhesion Strength	ASTM D 7005	50,000 ft ²	1 lb/in
Transmissivity ⁽¹⁾	ASTM D 4716	200,000 ft ²	1.0 x10 ⁻⁴ m ² /sec

July 2025 Geotextile			
Property ⁽³⁾	Test Method	8E Geotextile (non-conductive)	8 oz Geovolt® (conductive-face up)
Weight	ASTM D5261	8 oz/yd ²	8 oz/yd ²
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 ²	7.5 gal/min/ft ²
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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