



GSE FabriNet Geocomposite (Single-Sided)

GSE FabriNet geocomposite consists of GSE HyperNet geonet heat-laminated on one side with a GSE nonwoven needlepunched geotextile. GSE HyperNet is a 200 mil thick geonet manufactured from a premium grade high density polyethylene resin. For the purpose of lamination to geonets, GSE nonwoven needlepunched geotextiles are available in mass per unit area range of 6 oz/yd² (200 g/m²) to 16 oz/yd² (540 g/m²). GSE FabriNet geocomposites are designed and formulated to perform drainage function under a range of anticipated site loads, gradients and boundary conditions. Index properties for the product are provided in the table below. Please contact GSE for further information regarding performance under site-specific conditions.

Product Specifications

TESTED PROPERTY	TEST METHOD	FREQUENCY	MINIMUM AVERAGE ROLL VALUE ^(a)
Geocomposite			
Product Code			F41120000S
Transmissivity ^(b) , gal/min/ft (m ² /sec)	ASTM D 4716	1/540,000 ft ²	3.86 (8 x 10 ⁻⁴)
Ply Adhesion, lb/in (g/cm) average	ASTM D 7005	1/50,000 ft ²	1.0 (178)
Roll Width ^(c) , ft (m)			14.5 (4.4)
Roll Length ^(c) , ft (m)			240 (73.1)
Roll Area, ft ² (m ²)			3,480 (323)
Geonet core^(d)			
Transmissivity ^(b) , gal/min/ft (m ² /sec)	ASTM D 4716		9.66 (2 x 10 ⁻³)
Thickness, mil (mm)	ASTM D 5199	1/50,000 ft ²	200 (5)
Density, g/cm ³	ASTM D 1505	1/50,000 ft ²	0.94
Tensile Strength (MD), lb/in (N/mm)	ASTM D 5035	1/50,000 ft ²	45 (7.9)
Carbon Black Content, %	ASTM D 1603*/4218	1/50,000 ft ²	2.0
Geotextile (prior to lamination)^(d,e)			
Mass per Unit Area, oz/yd ² (g/m ²)	ASTM D 5261	1/90,000 ft ²	12 (405)
Grab Tensile, lb (N)	ASTM D 4632	1/90,000 ft ²	320 (1,420)
Puncture Strength, lb (N)	ASTM D 4833	1/90,000 ft ²	190 (835)
AOS, US Sieve (mm)	ASTM D 4751	1/540,000 ft ²	100 (0.150)
Permittivity, (sec ⁻¹)	ASTM D 4491	1/540,000 ft ²	0.8
Flow Rate, gpm/ft (l/min/m ²)	ASTM D 4491	1/540,000 ft ²	60 (2,440)
UV Resistance, % Retained	ASTM D 4355 (after 500 hours)	once per formulation	70

NOTES:

- ^(a)These are MARV values and are based on the cumulative results of specimens tested and as determined by GSE. AOS in mm units is maximum average roll value.
- ^(b)Gradient of 0.1, normal load of 10,000 psf, water at 70° F between stainless steel plates for 15 minutes.
- ^(c)Roll widths and lengths have a tolerance of ±1%.
- ^(d)Component properties prior to lamination.
- ^(e)Refer to geotextile product data sheet for additional specifications.
- * Modified.

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