



The Pioneer Of Geosynthetics  
S I N C E 1 9 7 2

## GSE FabriNet TRx Geocomposite

GSE FabriNet TRx high flow geocomposite is produced with a unique one step process that coextrudes creep resistant columns to an intrusion resistant roof. The resulting triaxial geonet is then laminated to a nonwoven geotextile filtration media. This product achieves high in-situ transmissivity from optimally oriented flow channels that maintain porosity because of the intrusion and creep resistant nature of the triaxial structure. The geocomposite provides continuous performance over a broad range of conditions. It is also well suited for use in surface water collection and removal systems, gas venting, and landfill liner system drainage applications.

### Product Specifications

TESTED PROPERTY	TEST METHOD	FREQUENCY	MINIMUM AVERAGE VALUE		
<b>Geocomposite</b>			<b>4 oz/yd<sup>2</sup></b>	<b>6 oz/yd<sup>2</sup></b>	<b>8 oz/yd<sup>2</sup></b>
Transmissivity <sup>(1)</sup> , gal/min/ft (m <sup>2</sup> /sec)	ASTM D 4716	1/540,000 ft <sup>2</sup>			
Double-Sided Composite			12.1 (2.5 x 10 <sup>-3</sup> )	12.1 (2.5 x 10 <sup>-3</sup> )	10.1 (2.2 x 10 <sup>-3</sup> )
Single-Sided Composite			15.7 (3.2 x 10 <sup>-3</sup> )	15.7 (3.2 x 10 <sup>-3</sup> )	13.8 (2.9 x 10 <sup>-3</sup> )
Ply Adhesion, lb/in (g/cm)	ASTM D 7005	1/50,000 ft <sup>2</sup>	1.0 (178)	1.0 (178)	1.0 (178)
<b>Geonet Core - GSE HyperNet TRx</b>					
Transmissivity <sup>(2)</sup> , gal/min/ft (m <sup>2</sup> /sec)	ASTM D 4716		43.5 (9.0x 10 <sup>-3</sup> )	43.5 (9.0x 10 <sup>-3</sup> )	43.5 (9.0x 10 <sup>-3</sup> )
Density, g/cm <sup>3</sup>	ASTM D 1505	1/50,000 ft <sup>2</sup>	>0.94	>0.94	>0.94
Tensile Strength <sup>(3)</sup> , lb/in (N/mm)	ASTM D 5035/7179	1/50,000 ft <sup>2</sup>	75 (13.3)	75 (13.3)	75 (13.3)
Carbon Black Content, %	ASTM D 1603*/4218	1/50,000 ft <sup>2</sup>	>2.0	>2.0	>2.0
<b>Geotextile (prior to lamination)<sup>(4)</sup></b>					
Mass per Unit Area, oz/yd <sup>2</sup> (g/m <sup>2</sup> )	ASTM D 5261	1/90,000 ft <sup>2</sup>	4	6	8
Grab Tensile, lb (N)	ASTM D 4632	1/90,000 ft <sup>2</sup>	120 (530)	160 (710)	220 (975)
Puncture Strength, lb (N)	ASTM D 4833	1/90,000 ft <sup>2</sup>	60 (265)	90 (395)	120 (525)
AOS, US sieve (mm)	ASTM D 4751	1/540,000 ft <sup>2</sup>	70 (0.212)	70 (0.212)	80 (0.180)
Permittivity, (sec <sup>-1</sup> )	ASTM D 4491	1/540,000 ft <sup>2</sup>	1.8	1.5	1.3
Flow Rate, gpm/ft <sup>2</sup> (lpm/m <sup>2</sup> )	ASTM D 4491	1/540,000 ft <sup>2</sup>	135 (5,495)	110 (4,480)	95 (3,865)
UV Resistance, % retained	ASTM D 4355 (after 500 hours)	once per formulation	70	70	70
<b>NOMINAL ROLL DIMENSIONS</b>					
Geonet Core Thickness, mil (mm)	ASTM D 5199	1/50,000 ft <sup>2</sup>	300 (7.6)	300 (7.6)	300 (7.6)
Roll Width <sup>(5)</sup> , ft (m)			15 (4.5)	15 (4.5)	15 (4.5)
Roll Length <sup>(5)</sup> , ft (m)	Double-Sided Composite		160 (48.8)	160 (48.8)	150 (45.7)
	Single-Sided Composite		180 (54.9)	170 (51.8)	170 (51.8)
Roll Area, ft <sup>2</sup> (m <sup>2</sup> )	Double-Sided Composite		2,400 (223)	2,400 (223)	2,250 (209)
	Single-Sided Composite		2,700 (251)	2,550 (237)	2,550 (237)

#### NOTES:

- <sup>(1)</sup>This is an index transmissivity value measured at stress = 1,000 psf; gradient = 0.1; time = 15 minutes; boundary conditions = plate/geocomposite/plate. Contact GSE for performance transmissivity value for use in design.
- <sup>(2)</sup>This is an index transmissivity value measured at stress = 1,000 psf; gradient = 0.1; time = 15 minutes; boundary conditions = plate/geonet/plate. Contact GSE for performance transmissivity value for use in design.
- <sup>(3)</sup>Tested in machine direction (MD).
- <sup>(4)</sup>All properties are minimum average values except AOS (mm) which is a maximum value and UV resistance which is a typical value.
- <sup>(5)</sup>Roll widths and lengths have a tolerance of ±1%.
- \*Modified.