

GSE FabriNet 175 mil Geocomposite

GSE FabriNet geocomposite consists of a 175 mil thick GSE HyperNet geonet heat-laminated on one or both sides with a GSE nonwoven needle-punched geotextile. The geotextile is available in mass per unit area range of 6 oz/yd² to 16 oz/yd². The geocomposite is designed and formulated to perform drainage function under a range of anticipated site loads, gradients and boundary conditions.



AT THE CORE:
A 175 mil thick HyperNet geonet heat-laminated on one or both sides with a nonwoven needlepunched geotextile.

Product Specifications

Tested Property	Test Method	Frequency	Minimum Average Roll Value ⁽¹⁾		
			6 oz/yd ²	8 oz/yd ²	10 oz/yd ²
Geocomposite					
Transmissivity ⁽²⁾ , gal/min/ft, (m ² /sec) Double-Sided Composite	ASTM D 4716	1/540,000 ft ²	0.4 (9.0x10 ⁻⁵)	0.4 (9.0x10 ⁻⁵)	0.4 (8.0x10 ⁻⁵)
Single-Sided Composite			1.9 (4.0x10 ⁻⁴)	1.9 (4.0x10 ⁻⁴)	1.4 (3.0x10 ⁻⁴)
Ply Adhesion, lb/in	ASTM D 7005	1/50,000 ft ²	1.0	1.0	1.0
Geonet Core^(1,3) - GSE HyperNet					
Geonet Core Thickness, mil	ASTM D 5199	1/50,000 ft ²	175	175	175
Transmissivity ⁽²⁾ , gal/min/ft (m ² /sec)	ASTM D 4716		4.8 (1.0 x 10 ⁻³)	4.8 (1.0 x 10 ⁻³)	4.8 (1.0 x 10 ⁻³)
Density, g/cm ³	ASTM D 1505	1/50,000 ft ²	0.94	0.94	0.94
Tensile Strength (MD), lb/in	ASTM D 7179	1/50,000 ft ²	40	40	40
Carbon Black Content, %	ASTM D 4218	1/50,000 ft ²	2.0	2.0	2.0
Geotextile^(1,3)					
Mass per Unit Area, oz/yd ²	ASTM D 5261	1/90,000 ft ²	6	8	10
Grab Tensile Strength, lb	ASTM D 4632	1/90,000 ft ²	160	220	260
Grab Elongation	ASTM D 4632	1/90,000 ft ²	50%	50%	50%
CBR Puncture Strength, lb	ASTM D 6241	1/540,000 ft ²	435	575	725
Trapezoidal Tear Strength, lb	ASTM D 4533	1/90,000 ft ²	65	90	100
AOS, US sieve ⁽⁴⁾ , (mm)	ASTM D 4751	1/540,000 ft ²	70 (0.212)	80 (0.180)	100 (0.150)
Permittivity, sec ⁻¹	ASTM D 4491	1/540,000 ft ²	1.5	1.3	1.0
Water Flow Rate, gpm/ft ²	ASTM D 4491	1/540,000 ft ²	110	95	75
UV Resistance, % retained	ASTM D 4355 (after 500 hours)	per formulation	70	70	70
NOMINAL ROLL DIMENSIONS⁽⁴⁾					
Roll Width, ft			14.5	14.5	14.5
Roll Length, ft	Double-Sided Composite		320	310	220
	Single-Sided Composite		300	300	280
Roll Area, ft ²	Double-Sided Composite		4640	4495	3190
	Single-Sided Composite		4350	4350	4060

NOTES:

- ⁽¹⁾All geotextile properties are minimum average roll values except AOS which is maximum average roll value and UV resistance is typical value. Geonet core thickness is nominal value.
- ⁽²⁾Gradient of 0.1, normal load of 10,000 psf, water at 70°F between steel plates for 15 minutes. Contact GSE for performance transmissivity value for use in design.
- ⁽³⁾Component properties prior to lamination.
- ⁽⁴⁾Roll widths and lengths have a tolerance of ±1%.

GSE is a leading manufacturer and marketer of geosynthetic lining products and services. We've built a reputation of reliability through our dedication to providing consistency of product, price and protection to our global customers.

Our commitment to innovation, our focus on quality and our industry expertise allow us the flexibility to collaborate with our clients to develop a custom, purpose-fit solution.



[DURABILITY RUNS DEEP] For more information on this product and others, please visit us at GSEworld.com, call 800.435.2008 or contact your local sales office.