

GSE FabriNet 4.4 mm Geocomposite

METRIC

GSE FabriNet geocomposite consists of a 4.4 mm 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 200 g/m² to 540 g/m². 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 4.4 mm 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⁾		
Geocomposite			200 g/m²	270 g/m²	335 g/m²
Transmissivity ⁽²⁾ , m ² /sec Double-Sided Composite Single-Sided Composite	ASTM D 4716	1/50,000 m ²	9.0x10 ⁻⁵ 4.0x10 ⁻⁴	9.0x10 ⁻⁵ 4.0x10 ⁻⁴	8.0x10 ⁻⁵ 3.0x10 ⁻⁴
Ply Adhesion, g/cm	ASTM D 7005	1/4,600 m ²	178	178	178
Geonet Core^(1,3) - GSE HyperNet					
Geonet Core Thickness, mm	ASTM D 5199	1/4,600 m ²	4.4	4.4	4.4
Transmissivity ⁽²⁾ , m ² /sec	ASTM D 4716		1.0 x 10 ⁻³	1.0 x 10 ⁻³	1.0 x 10 ⁻³
Density, g/cm ³	ASTM D 1505	1/4,600 m ²	0.94	0.94	0.94
Tensile Strength (MD), N/mm	ASTM D 7179	1/4,600 m ²	7.0	7.0	7.0
Carbon Black Content, %	ASTM D4218	1/4,600 m ²	2.0	2.0	2.0
Geotextile^(1,3)					
Mass per Unit Area, g/m ²	ASTM D 5261	1/8,300 m ²	200	270	335
Grab Tensile Strength, N	ASTM D 4632	1/8,300 m ²	710	975	1,155
Grab Elongation	ASTM D 4632	1/8,300 m ²	50%	50%	50%
CBR Puncture Strength, N	ASTM D 6241	1/50,000 m ²	1,936	2,557	3,225
Trapezoidal Tear Strength, N	ASTM D 4533	1/8,300 m ²	290	395	445
AOS, US sieve ⁽¹⁾ (mm)	ASTM D 4751	1/50,000 m ²	0.212	0.180	0.150
Permittivity, (sec ⁻¹)	ASTM D 4491	1/50,000 m ²	1.5	1.3	1.0
Water Flow Rate, lpm/m ²	ASTM D 4491	1/50,000 m ²	4,480	3,865	3,050
UV Resistance, % Retained	ASTM D 4355 (after 500 hours)	per formulation	70	70	70
NOMINAL ROLL DIMENSIONS⁽⁴⁾					
Roll Width, m			4.4	4.4	4.4
Roll Length, m	Double-Sided Composite		98	94	67
	Single-Sided Composite		92	92	85
Roll Area, m ²	Double-Sided Composite		431	414	295
	Single-Sided Composite		405	405	374

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 480 kPa, water at 21°C 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.

