



AT THE CORE:
A 4.6 mm thick HyperNet geonet heat-laminated on one or both sides with a nonwoven needlepunched geotextile.

GSE FabriNet 4.6 mm Geocomposite

GSE FabriNet geocomposite consists of a 4.6 mm thick GSE HyperNet geonet heat-laminated on one or both sides with a nonwoven needle-punched geotextile. The geotextile is available in 200 g/m² and 270 g/m² mass per unit area. The geocomposite is designed and formulated to perform drainage function under a range of anticipated site loads, gradients and boundary conditions.

Product Specifications

Tested Property		Test Method	Unit	Value		
Geocomposite				200 g/m²	270 g/m²	
Transmissivity ^(b,c,d)	20kPa	Double Sided Single Sided	ASTM D4716	m ² /s	6.75E-04 8.10E-04	6.75E-04 8.10E-04
	100kPa	Double Sided Single Sided			5.24E-04 6.99E-04	5.24E-04 6.99E-04
	200kPa	Double Sided Single Sided			3.68E-04 5.78E-04	3.68E-04 5.78E-04
Ply Adhesion ^(d)		ASTM D7005	kN/m	0.17	0.17	
Geonet ^(*)						
Geonet Core Thickness ^(d)		ASTM D5199	mm	4.6	4.6	
Density ^(d)		ASTM D792	g/cm ³	0.94	0.94	
Tensile Strength (MD) ^(b,d)		ASTM D7179	kN/m	6.5	6.5	
Carbon Black Content ^(d)		ASTM D1603	%	2.0	2.0	
Geotextiles ^(*)						
Mass Per Unit Area ^(d)		ASTM D5261	g/m ²	200	270	
Grab Tensile Strength ^(d)		ASTM D4632	N	710	975	
Grab Elongation ^(a)			%	60	60	
CBR Puncture Strength ^(d)		ASTM D6241	kN	1.89	2.5	
Trapezoid Tear Strength ^(d)		ASTM D4533	kN	0.31	0.42	
Permittivity ^(d)		ASTM D4491	sec ⁻¹	1.3	1.3	
Water Flow Rate ^(d)			l/m ² /s	65	65	
UV Resistance ^(d)		ASTM D4355	% retained	70	70	
Apparent Open Size ^(e)		ASTM D4751	mm	0.212	0.18	
Roll Dimensions						
Roll Width ^(f)	Double Sided		m	3.65	3.65	
	Single Sided					3.7
Roll Length ^(f)	Double Sided		m	50	50	
	Single Sided					50
Roll Area	Double Sided		m ²	182.5	182.5	
	Single Sided					185
Truck Load	Double Sided		roll	32	29	
	Single Sided					36
Container Load	Double Sided		roll	32	29	
	Single Sided					36

NOTES:

- (*): Component properties prior to lamination
- (a): Typical values;
- (b): Machine direction;
- (c): Transmissivity values determined at i=1.0 and 2.0mm HDPE linear boundary condition. Water @ 21±2°C;
- (d): Minimum average value
- (e): Maximum Average Value
- (f): Roll Length/Roll width is custom-made (Geotextile width is 4.2m)

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 66.2.937.0091 or contact your local sales office.

