

GSE FabriNet CN-E

Two-layer, three-dimensional drainage geocomposite, consisting of a geonet core, heat-laminated on one side with a geotextile. Geonet core: 100% HDPE (black) – Geotextile 100% Polypropylene (white) – 1a quality. The layers are heat-bonded by thermal lamination.” The geocomposite is designed and formulated to perform drainage function under a range of anticipated site loads, gradients and boundary conditions.



AT THE CORE:
 Multilayer, multifunctional HDPE geocomposite providing increased durability for drainage, filtration and puncture protection.

Product Specifications

Tested Property	Test Method	Unit	Value(*)	
Geocomposite				
Product Type	---	---	B121	B201
Tensile Strength MD (T _{max}) CMD (T _{max})	DIN EN ISO 10319	kN/m	12 9	16 14
In-plane Flow Capacity (q _p); MD (rigid/rigid) ^(a) at 20 kPa at 50 kPa at 100 kPa at 200 kPa	DIN EN ISO 12958	l/(m x s)	i = 1 1.3 1.2 1.0 0.8	i = 1 1.2 1.1 1.0 0.8
Thickness at 2 kPa	DIN EN ISO 9863-1	mm	4.5	5
Geonet^(b)				
Raw Material	---	---	High Density Polyethylene, black	
Density	DIN EN ISO 1183	g/cm ³	≥ 0.94	
Thickness at 2 kPa / 20 kPa	DIN EN ISO 9863-1	mm	4.2 / 3.8	
Geotextiles^(b)				
Raw Material	---	---	Polypropylene, white	
Unit Weight (ρA)	DIN EN ISO 9864	g/m ²	120	200
Tensile Strength MD (T _{max}) CMD (T _{max})	DIN EN ISO 10319	kN/m	8 8	14 14
Puncture Resistance (F _p)	DIN EN ISO 12236	N	1,400	1,890
Characteristic Opening Size (O ₉₀)	DIN EN ISO 12956	μm	100	60
Water Permeability Velocity Index (V _{I-H50}) Flux normal to the Plane (q _N)	DIN EN ISO 11058	mm/s l/(m ² x s)	100 100	65 65
Durability Characteristics				
Carbon Black Content ^(c)	ASTM D 4218	%	2.0 – 3.0	
Oxidative Induction Time (OIT) ^(c)	ASTM D 3895 (190°C; Pure O ₂ ; 1 atm)	min	100	
UV Resistance ^(d)	---	---	to be covered within 2 weeks	
Roll Dimensions			B121	B201
Roll Width (Geonet Core)(approx.) ^(e)		m	4.0	4.0
Roll Length (approx.) ^(e)		m	85	85
Roll Area (approx.)		m	340	340

NOTES:

- (*): All values - unless otherwise noted - are guiding values. Minimum values are within the 95% confidence interval.
- (**): Leaving a width of approx. 20 cm without heat-bonding at both edges in the MD / on both sides - enabling sufficient geonet overlapping during installation.
- (a): 300 x 300 mm test specimens.
- (b): Component properties prior to lamination.
- (c): Geonet properties.
- (d): Geotextile properties.
- (e): Roll width and length have a tolerance -1%.

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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 49.40.767420 or contact your local sales office.

