

GSE FabriNet CN-E

Three-layer, three-dimensional drainage geocomposite, consisting of a geonet core, heat-laminated on both sides with geotextiles. Geonet core: 100% HDPE (black) - Geotextiles 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	---	---	B120		B200	
Tensile Strength MD (T_{max}) CMD (T_{max})	DIN EN ISO 10319	kN/m	20 15	30 20		
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 0.65 0.55 0.5 0.4	i = 0.1 0.12 0.1 0.09 0.06	i = 1 0.55 0.45 0.4 0.3	i = 0.1 0.1 0.08 0.07 0.05
Thickness at 2 kPa	DIN EN ISO 9863-1	mm	5		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 (ρ_A)	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 ($x - s$) (F_p)	DIN EN ISO 12236	N	1,400		1,890	
Characteristic Opening Size (O_{90})	DIN EN ISO 12956	μ m	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						
Roll Width (Geonet Core)(approx.) ^(e)		m	4.0		4.0	
Roll Length (approx.) ^(e)		m	85		75	
Roll Area (approx.)		m	340		300	

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.

