

GBL Geofelt Bentonite Liners

BENFELT 3



Mechanically bonded composite, consisting of pulverized or granulated bentonite, embedded and fixed between two layers of geo-textile.

Mass per unit area (average)

Carrier Layer	PP Woven	100 g/m ²
Inlay	Na-Bentonite	3.000 g/m ²
Cover Layer	PP Nonwoven	200 g/m ²
Total Product Weight	ASTM D 5993	3.300 g/m ² (+/- 10 %)

Bentonite Properties

Montmorillonite Content	CUR 33	≥ 75 %
Swelling Capacity	ASTM D 5890	> 24 ml/2g
Moisture Content	DIN 18121-1/18121-2	max 12 %

Physical Properties of the Composite

Thickness	EN ISO 9863-1/9863-2	5,8 mm
Index Flux	ASTM D 5887	≤ 3,0 x 10 ⁻⁹ m ³ /m ² /s (6,0 x 10 ⁻⁹ m ³ /m ² /s)
Permeability	ASTM D 5887	≤ 5,0 x 10 ⁻¹¹ m/s (1,0 x 10 ⁻¹⁰ m/s)
Tensile Strength MD	EN ISO 10319	10,4 kN/m (- 10 %)
Tensile Strength CD	EN ISO 10319	8,5 kN/m (- 10 %)
CBR Puncture Strength	EN ISO 12236	1,8 kN (- 10 %)
Peel Strength	ASTM D 6496	60 N/10 cm (-10 %)

Durability:

-cover in installation day

-durability 25 years at natural base and pH between 4 and 9 and temperature < 25°C.

Standard Roll Dimensions	Length / Width	40 x 5,1 m
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These data are average values derived from standard tests and are subject to usual product variation. The right is reserved to make changes without notice at any time. Rev. 11/2011



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