

GBL Geofelt Bentonite Liners

BENFELT 4.8



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

Mass per unit area (average)	Test Method	Value	Test Frequency
Carrier Layer PP Woven	EN ISO 9864	100 g/m ²	20.000 m ²
Inlay Na-Bentonite	EN 14196	4.800 g/m ²	4.000 m ²
Cover Layer PP Nonwoven	EN ISO 9864	200 g/m ²	20.000 m ²
Total Product Weight ⁽¹⁾	EN 14196	5.100 g/m ²	4.000 m ²

Bentonite Properties

Montmorillonite Content	CUR 33	≥ 75%	50 to
Swelling Capacity	ASTM D 5890	>24 ml/2g	50 to
Fluid Loss	ASTM D 5891	< 18 ml	50 to
Moisture Content	DIN 18121-1/18121-2	max 12 %	4.000 m ²

Physical Properties of the Composite

Thickness	EN ISO 9863-1	7,2 mm	4.000 m ²
Permeability	ASTM D 5887	1,0 x 10 ⁻¹¹ m/s (2,0x10 ⁻¹¹ m/s)	25.000 m ²
Tensile Strength MD	EN ISO 10319	10,4 kN/m	20.000 m ²
Tensile Strength CMD	EN ISO 10319	8,5 kN/m	20.000 m ²
CBR Puncture Strength	EN ISO 12236	1,5 kN	20.000 m ²
Peel Strength ⁽²⁾	ASTM D 6496	50 N/10cm	4.000 m ²

⁽¹⁾ at 12% moisture content

⁽²⁾ measured on max peak

MD - machine direction ;

CMD – cross machine direction

Durability

-cover in installation day

-durability 50 years at natural base and pH between 4 and 9 and temperature < 25°C

Standard Roll Dimensions

Length/Width

10 m x 2,55 m

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.
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