

GBL Geofelt Bentonite Liners

BENFELT 4.8 CS 1,0



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

Mass per unit area (average)

Carrier Layer PP Woven	EN ISO 9864	100 g/m ²
Inlay Na-Bentonite	EN 14196	4.800 g/m ²
Cover Layer PP Nonwoven	EN ISO 9864	200 g/m ²
HDPE Membrane	EN ISO 9863-1	1.0 mm
Total Product Weight (at 12% moisture)	EN 14196	6.100 g/m ² (+/- 10%)

Bentonite Properties

Fluid Loss	ASTM D 5891	< 18 ml
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	8,5 mm
Permeability	ASTM D 5887	IMPERMEABLE
Tensile Strength MD	EN ISO 10319	25.0 kN/m (- 10%)
Tensile Strength CMD	EN ISO 10319	25.0 kN/m (- 10%)
CBR Puncture Strength	EN ISO 12236	3.0 kN (- 10%)
Peel Strength *	ASTM D 6496	60 N/10 cm (- 10%)

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	35 x 5,1 m
---------------------------------	--------------	------------

MD = machine direction; CMD = cross machine direction

* measured on max peak

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. Updating April 2012



GEOFELT GmbH
Rainerstrasse 14
4020 Linz/Austria
T: +43 (0) 732 609860
F: +43 (0) 732 6098608
www.geofelt.com