

GBL Geofelt Bentonite Liners

BENFELT 4.8 CS 1,5



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 | 1,5 mm |
| Total Product Weight (at 12% moisture) | EN 14196 | 6.600 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 | 8,9 mm |
| Permeability | ASTM D 5887 | IMPERMEABLE |
| Tensile Strength MD | EN ISO 10319 | 27,5 kN/m (- 10%) |
| Tensile Strength CMD | EN ISO 10319 | 27,5 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



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