

# Bentotex 50

## Geosynthetic Clay Liner



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### Product Description

Bentotex is a high specification geosynthetic clay liner, comprising of high quality natural sodium bentonite encapsulated between a woven and a non-woven needlepunched polypropylene geotextiles.

Bentotex adopts unique self-seaming overlaps technology which doesn't require any additional treatment of its longitudinal edges.

Material properties	Test method	Typical value
<b>Physical properties</b>		
Total mass per unit area <sup>1</sup>	EN 14196	5500 g/m <sup>2</sup>
Bentonite mass per unit area <sup>1</sup>	EN 14196	5200 g/m <sup>2</sup>
Bentonite mass per unit area <sup>3</sup>	EN 14196	4640 g/m <sup>2</sup>
Thickness <sup>6, 7</sup>	EN 9863-1	7.5 mm
<b>Hydraulic properties</b>		
Flux index <sup>2</sup>	EN 16416	3*10 <sup>-9</sup> m <sup>3</sup> /m <sup>2</sup> /s
Permability <sup>9</sup>	DIN 18130 / ASTM 5887	1*10 <sup>-11</sup>
Water Absorption		600 %
Montmorillonite content <sup>8</sup>	XRD	80%
<b>Mechanical properties</b>		
Peel Strength	ASTM D6496	1000 N/m
Tensile strength <sup>4</sup>	EN ISO 10319	11 kN/m
Static puncture resistance (CBR) <sup>5</sup>	EN ISO 12236	2.0 kN
Textiles (PP)		
Non woven mass / unit area <sup>8</sup>	EN ISO 9864	200 g/m <sup>2</sup>
Woven mass / unit area <sup>8</sup>	EN ISO 9864	100 g/m <sup>2</sup>

1 - Average, at 12% moisture content, tolerance 4%

2 - Average, tolerance 0,5x10<sup>-9</sup> m<sup>3</sup>/m<sup>2</sup>/s

3 - Average, at 0% moisture content, tolerance 4%

4 - Average, tolerance 2,0 kN

5 - Puncture resistance (CBR) with tolerance – 0.2 kN

6 - Material is fully saturated and it is this measured at 2kPa pressure

7 - Average, tolerance 10 %

8 - Certified by supplier

9 - Average tolerance 0,5\*10<sup>-11</sup> m/s

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### Application:

- Water reservoirs, dams and river embankments
- Liquid wastes disposals sites, transfer stations, secondary containment
- Transport infrastructure
- Canals
- Solid wastes storage and disposal sites

### Advantages:

- Self-healing
- Robust construction
- Limited preparation work
- Easy and quick installation
- Long performance
- All weather installation, including wet and frozen subgrades

### Installation:

- Unrolled on smooth and compacted subgrade
- Subsequent panels lapped 300mm at leading edges

### Packaging:

Bentotex is produced in 5m wide x 40m long panels, rolled onto a 100mm internal diameter central core, and protected with a plastic sleeve. Other panel sizes are available on request.

### Storage:

Provided the rolls are kept inside their protective plastic sleeves, further on-site protection is not required.

### Safety Instruction

There are no special safety measures required for the handling and installation of Bentotex, other than those normally implemented on construction sites.

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