

## TECHNICAL DATA

**Bentomat® CL** is a reinforced GCL composed of two carrier geotextiles needlepunched together to encapsulate a layer of sodium bentonite. A composite lamination gives the GCL excellent hydraulic performance.

### BENTOMAT CL0,2

MATERIAL PROPERTY	TEST METHOD	REQUIRED VALUES	TEST FREQUENCY
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#### *Geosynthetic Clay Liner*

Flux	ASTM D 5887	No observed flow	Continuous
Permeability	ASTM D 5887	No observed flow	Continuous
Bentonite Mass/unit area <sup>(1)</sup>	EN 14196	4,14kg/m <sup>2</sup>	5.000m <sup>2</sup>
Bentonite Mass/unit area <sup>(2)</sup>	EN 14196	4,03kg/m <sup>2</sup>	5.000m <sup>2</sup>
Bentonite Mass/unit area <sup>(3)</sup>	EN 14196	3,60kg/m <sup>2</sup>	5.000m <sup>2</sup>
Tensile strength	EN ISO 10319	8,0kN/m	5.000m <sup>2</sup>
Elongation	EN ISO 10319	20% typical	5.000m <sup>2</sup>
Peel Strength	ASTM D 6496	650N/m	5.000m <sup>2</sup>
Thickness	EN 9863-1	6,5mm typical	Continuous
Length	N/A	40m (standard)	Continuous
Width	N/A	5,0m(standard)	Continuous

#### *Bentonite*

Free swell	ASTM D 5890	25ml/2g	5.000m <sup>2</sup>
Fluid loss	ASTM D 5891	18ml	5.000m <sup>2</sup>
Water absorption	DIN 18132	600%	5.000m <sup>2</sup>

#### *Geotextiles&membrane*

Nonwoven	EN 9864	200g/m <sup>2</sup>	Certified by supplier
Woven	EN 9864	100g/m <sup>2</sup>	Certified by supplier
Membrane	EN 9863-1	0,2mm	Certified by supplier

#### Notes:

- <sup>1</sup> Bentonite mass/area reported at 15% moisture content.
- <sup>2</sup> Bentonite mass/area reported at 12% moisture content.
- <sup>3</sup> Bentonite mass/area reported at 0% moisture content.