



Certified Properties

BENTOMAT[®] CL

MATERIAL PROPERTY	ANALYSIS CONDUCTED BASED ON TEST METHOD	TEST FREQUENCY	REQUIRED VALUES
Bentonite Swell Index ²	ASTM D 5890	10,000 m ²	24ml / 2g min.
Bentonite Mass per unit Area ³	ASTM D 5993/EN 14196	5,000 m ²	4.0 kg/m ²
Bentonite Fluid Loss	ASTM D 5891	10,000 m ²	18 ml max.
GCL Peel Strength	ASTM D 6496	5,000 m ²	65 N
GCL Index Flux	ASTM D 5887	25,000 m ²	No Observable Flow
GCL Permeability	ASTM D 5887	25,000m ²	No Observable Flow
Tensile Strength ¹	EN ISO 10319	20,000 m ²	8 kN/m
Elongation	EN ISO 10319	20,000 m ²	15 percent typical
Mass per unit area of woven geotextile	ASTM D 5261	1 per 20,000 m ²	100 g/m ²
Mass per unit area of (non woven) needle-punched geotextiles	ASTM D 5261	1 per 20,000 m ²	200 g/m ²
Mass per unit area of flexible Membrane liner	ASTM D 5261	1 per 20,000 m ²	160 g/m ²

Bentomat[®] CL is a reinforced GCL consisting of a layer of natural sodium Bentonite between a woven and a non-woven geotextile which are needle-punched together and laminated to a thin flexible membrane liner.

Notes:

- ¹ All tensile testing is performed in the machine direction.
- ² Bentonite properties as removed from the finished GCL.
- ³ Bentonite mass/area reported at 12 percent moisture.



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