



# Certified Properties

## BENTOMAT<sup>®</sup> CL

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

***Bentomat<sup>®</sup> 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:**

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



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