



Verdaclay CL Liner Specification Sheet

MATERIAL PROPERTY	ANALYSIS CONDUCTED BASED ON TEST METHOD	TEST FREQUENCY	REQUIRED VALUES
Bentonite Swell Index ²	ASTM D 5890	10,000 m ²	36 ml / 2g.
Bentonite Mass per unit Area ³	ASTM D 5993/EN 14196	5,000 m ²	4.3 kg/m ²
Bentonite Fluid Loss	ASTM D 5891	10,000 m ²	15 ml.
GCL Peel Strength	ASTM D 6496	5,000 m ²	190 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	14 kN/m
Elongation	EN ISO 10319	20,000 m ²	20 %
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

Verdaclay 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.

Notes:

- ¹ Index flux and permeability testing with de-aired distilled/de-ionized water at 80 psi (551 kPa) cell pressure, 77 psi (531 kPa) headwater pressure and 75 psi (517 kPa) tail water pressure.
- ² All tensile testing is performed in the machine direction.
- ³ Bentonite properties as removed from the finished GCL.
- ⁴ Bentonite mass/area reported at 12 percent moisture.

Specialists in Geosynthetics & Erosion Control