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Product Specification Sheet

## A.G.A. Claymat PCL

High Technology Natural Lining System for Ponds constructed with a plastic Geomembrane laminated to one side of the liner.

A.G.A. Claymat PCL is a reinforced Geosynthetic Clay Liner (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.

MATERIAL PROPERTY	ANALYSIS CONDUCTED BASED ON TEST METHOD	TEST FREQUENCY	REQUIRED VALUES
Bentonite Swell Index *3	ASTM D 5890	10,000 m <sup>2</sup>	24 ml / 2g.
Bentonite Mass per unit Area*4	ASTM D 5993/EN 14196	5,000 m <sup>2</sup>	4.8 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 *1	ASTM D 5887	25,000 m <sup>2</sup>	2 x 10 <sup>-9</sup> (m <sup>3</sup> /m <sup>2</sup> )/s <sup>-1</sup>
GCL Permeability *1	ASTM D 5887	25,000m <sup>2</sup>	1 x 10 <sup>-11</sup> m/s <sup>-1</sup>
Tensile Strength *2	EN ISO 10319	5,000 m <sup>2</sup>	>= 9 kN/m
Elongation	EN ISO 10319	20,000 m <sup>2</sup>	>=15 % typical
Mass per unit area of woven geotextile	ASTM D 5261	20,000 m <sup>2</sup>	105 g/m <sup>2</sup>
Mass per unit area of (non woven) needle-punched geotextiles	ASTM D 5261	20,000 m <sup>2</sup>	200 g/m <sup>2</sup>

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 per cent moisture

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