Verdaclay 50 & 100 Liner Specification Sheet

Verdaclay 50

MATERIAL PROPERTY	ANALYSIS CONDUCTED BASED ON TEST METHOD	TEST FREQUENCY	VALUES
Bentonite Swell Index[3]	ASTM D 5890	10,000 m^2	32 ml / 2g.
Bentonite Mass per unit Area[4]	ASTM D 5993/EN 14196	5,000 m^2	4 kg/m^{-2}
Bentonite Fluid Loss	ASTM D 5891	10,000 m^2	12 ml
GCL Peel Strength	ASTM D 6496	5,000 m^2	160 N
GCL Index Flux[1]	ASTM D 5887	25,000 m^2	2.8×10^{-9} $(m^3/m^2)/s^{-1}$
GCL Permeability[1]	ASTM D 5887	25,000m^2	1×10^{-11} m/s^{-1}
Tensile Strength[2]	EN ISO 10319	20,000 m^2	11.5 kN/m
Elongation	EN ISO 10319	20,000 m^2	15 %
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

Roll size: 5m x 50m
Weight: 1300kg approx.

Verdaclay 100

MATERIAL PROPERTY	ANALYSIS CONDUCTED BASED ON TEST METHOD	TEST FREQUENCY	REQUIRED VALUES
Bentonite Swell Index[3]	ASTM D 5890	10,000 m^2	24 ml / 2g min.
Bentonite Mass per unit Area[4]	ASTM D 5993/EN 14196	5,000 m^2	4.8 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[1]	ASTM D 5887	25,000 m^2	2×10^{-9} $(m^3/m^2)/s^{-1}$
GCL Permeability[1]	ASTM D 5887	25,000m^2	1×10^{-11} m/s^{-1}
Tensile Strength[2]	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

Roll size: 5m x 40m
Weight: 1300kg approx.

Verdaclay 50 and 100 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.

High Street, Hartfield, East Sussex TN7 4AE
Tel: 01892 770470 Fax: 01892 770760
Email: office@verdantsolutions.ltd.uk
www.verdantsolutions.ltd.uk