

TECHNICAL DATA SHEET

3600 L Geosynthetic Clay Liner

3600 L is a mechanically bonded composite consisting of pulverized and / or granulated bentonite, embedded and fixed between two layers of geotextile. The GCL is impregnated with additional bentonite along the outer 300 mm of the long edges of the rolls.

Product Specifications

Geotextile Properties	Test Method	Frequency	Value
Cover Layer Non Woven	ASTM D 5621	1/20,000 m ²	150 g/m ²
Carrier Layer Woven	ASTM D 5621	1/20,000 m ²	100 g/m ²

Bentonite Properties	Test Method	Frequency	Value
Swell Index	ASTM D 5890	1/50,000 kg	24 ml/2g min
Moisture Content	ASTM D 4643	1/50,000 kg	12% max
Fluid Loss	ASTM D 5891	1/50,000 kg	18 ml max

Physical Properties of the Composite	Test Method	Frequency	Value
Bentonite, Mass/Unit Area ⁽²⁾	ASTM D 5993	1/4,000 m ²	3600 g/m ² Marv ⁽¹⁾
Thickness	ASTM D 5199	1/4,000 m ²	5,8 mm
Tensile Strength ⁽³⁾	ASTM D 6768	1/4,000 m ²	10,0 kN
Peel Strength ⁽⁴⁾	ASTM D 6496	1/4,000 m ²	500 N/m
Hydraulic Conductivity ⁽⁵⁾	ASTM D 5887	1/Week	5 x 10 ⁻⁹ cm/sec max
Index Flux ⁽⁵⁾	ASTM D 5887	1/Week	5 x 10 ⁻⁹ m ³ /m ² /sec max
Internal Shear Strength ⁽⁶⁾	ASTM D 6243	Periodically	20 kPa
CBR Puncture Strength	ASTM D 6241	1/4,000 m ²	1,6 kN

Standard Roll Dimensions	Test Method	Frequency	Value ⁽⁷⁾
Width x Length	Typical	Every Roll	5,1 m. x 45 m.
Area per Roll	Typical	Every Roll	229,5 m ²
Packaged Roll	Typical	Every Roll	1090 kg

Notes:

- (1) MARV = Minimum Average Roll
- (2) At 0% moisture content.
- (3) All tensile strength testing is performed in the machine direction (MD).
- (4) Measured on max peak.
- (5) Deaired, deionized water @ 5 psi maximum effective stress and 2 psi head pressure.
- (6) Typical peak value measured at 200 psf (10 Kpa) normal stress for a specimen hydrated for 24 hrs.
- (7) Roll widths and lengths have a tolerance of +/- 5%.

These data are average values derived from standard tests and are subject to usual product variation and is provided for reference purposes only. The right is reserved to make changes without notice at any time. -assumes no liability in connection with the use of this information.