GEOMEMBRANES



AGRU GeoClay® wn33

AGRU America's GeoClay WN33 is an unreinforced needlepunched geosynthetic clay liner that comprises a uniform layer of granular bentonite that is encapsulated between a woven and a nonwoven geotextile. These products are intended for moderate to steep slopes and moderate- to high-load applications, where increased internal shear strength is required.

GEOTEXTILE PROPERTY	TEST METHOD	FREQUENCY	MINIMUM AVERAGE ROLL VALUE		
Upper Nonwoven, Mass/Unit Area, oz/yd ² (g/m ²)	ASTM D5261	200,000 sf	3.0 (100)		
Lower Woven, Mass/Unit Area, oz/yd ² (g/m ²)	ASTM D5261	200,000 sf	3.1 (100)		
BENTONITE PROPERTY ¹	TEST METHOD	FREQUENCY	MINIMUM AVERAGE ROLL VALUE		
Swell Index, ml/2 g min	ASTM D5890	100,000 lb	24		
Moisture Content, %	ASTM D5993	100,000 lb	12% max		
Fluid Loss, ml	ASTM D5891	100,000 lb	18 max		
FINISHED GCL PROPERTY	TEST METHOD	FREQUENCY	MINIMUM AVERAGE ROLL VALUE		
Bentonite, Mass/Unit Area ² , lb/ft ² (kg/m ²)	ASTM D5993	40,000 sf	0.75 (3.6)		
Tensile Strength ³ , lb/in (N/cm)	ASTM D6768	40,000 sf	30 (53)		
Peel Strength ³ lb/in (N/cm)	ASTM D6496	40,000 sf	1 (1.7)		
Hydraulic Conductivity⁴ cm/sec max	ASTM D5887	1/week	5x10 ⁻⁹		
	ASTM D5887	1/week	1x10 ⁻⁸		
ndex Flux ⁴ m ³ /m ² /sec max	ASTIVI D 5007				

SUPPLY INFORMATION									
ROLL SIZE	WIDTH		LENGTH		AREA				
KOLL SIZE	FT	M	FT	M	FT ²	M ²			
	15.5	4.7	150	45.7	2,325	216			

Notes:

(1) Bentonite properties tests performed at a bentonite processing facility prior to shipment to GCL production facility

(2) Reported at 0% moisture

(3) Tensile strength testing performed in MD using ASTM D 6768.

(4) Deaired, deionized water @5 psi maximum effective confining stress and 2 psi head pressure.

(5) Specimens are hydrated for 24 hours and sheared at 200 psf. Represent typical peak value.

Rolls weigh approximately 2,600 lbs, are supplied with two straps and wound on a 4.75" core.

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