



Agru GeoClay WN33

Geotextile Component

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 D4643	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 Conductivity ⁴ cm/sec max	ASTM D5887	1/week		5 x 10 ⁻⁹	
Index Flux ⁴ m ³ /m ² /sec max	ASTM D5887	1/week		1 x 10 ⁻⁸	
Internal Shear Strength ⁵ psf (kPa)	ASTM D6243	Periodically		150	(7.2) Typical

Supply Information

Roll Size	Width		Length		Area	
	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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