

Geocomposite

275 MIL

AGRU America's Geocomposite Closure System is the traditional method for closures, which utilizes AGRU MicroSpike® or AGRU Smooth Liner® geomembrane, overlain by a geocomposite drainage layer, soil cover layer, and vegetative layer.

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GEONET COMPONENT ⁽¹⁾

Property	Test Method	Frequency	Minimum Average Values		
Thickness, mil (mm)	ASTM D5199	50,000 sf	275 (7.0)		
Peak Tensile Strength MD, lbs./ in. (N/mm)	ASTM D5035/7179	50,000 sf	65 (11.4)		
Density, g/cm ³	ASTM D792, Method B	50,000 sf	0.94		
Carbon Black Content (%)	ASTM D4218	50,000 sf	2 - 3		
Transmissivity ⁽²⁾ , m ² /sec. (gal/min/ft)	ASTM D4716	500,000 sf	6 x 10 ⁻³ (29)		

GEOTEXTILE COMPONENT ⁽¹⁾

Property	Test Method	Frequency	Minimum Average Values		
Mass per Unit Area, oz./sq. yd. (g/m ²)	ASTM D5261	100,000 sf	6.0 (203)	8.0 (271)	10.0 (339)
Grab Tensile Strength, lbs.(N)	ASTM D4632	100,000 sf	170 (757)	220 (979)	270 (1200)
Grab Elongation, %	ASTM D4632	100,000 sf	50	50	50
Trapezoidal Tear, lbs. (N)	ASTM D4533	100,000 sf	65 (289)	95 (423)	105 (467)
CBR Puncture, lbs (N)	ASTM D6241	500,000 sf	435 (1935)	600 (2670)	725 (3230)
Permittivity ⁽³⁾ , sec. ⁻¹	ASTM D4491	500,000 sf	1.5	1.3	1.1
Water Flow, ⁽³⁾ gpm./ ft ² (l/min/m ²)	ASTM D4491	500,000 sf	110 (4479)	95 (3895)	80 (3280)
AOS, U.S. Sieve max (mm) ⁽³⁾	ASTM D4751	500,000 sf	70 (0.212)	80 (0.180)	100 (0.150)

GEOCOMPOSITE

Property	Test Method	Frequency	Minimum Average Values		
Ply Adhesion, lbs./ in. (g/cm)	ASTM D7005	50,000 sf	1 (178)	1 (178)	1 (178)
Transmissivity ⁽²⁾ , m ² /sec. (gal/min/ft)	ASTM D4716	500,000 sf - Double	7 x 10 ⁻⁴ (3.4)	7 x 10 ⁻⁴ (3.4)	5 x 10 ⁻⁴ (2.4)
	ASTM D4716	500,000 sf - Single	2 x 10 ⁻³ (9.6)	2 x 10 ⁻³ (9.6)	1.5 x 10 ⁻³ (7.2)

SUPPLY INFORMATION

Standard Roll Length ⁽⁴⁾	at Fabric Weight	6-oz	8-oz	10-oz
Double Sided		180	170	160
Single Sided		200	200	190

Notes:

- (1) Component properties are prior to lamination
- (2) Geonet & Geocomposite. Transmissivity at 21°C, gradient of 0.1, load of 10,000 psf, seat time 15 min. between steel plates.
- (3) At time of manufacture. Handling may change these properties.
- (4) All roll widths are 14.5 feet. All roll lengths and widths have a tolerance of ±1%
- (5) UV Resistance after 500 hours for the geotextile component exhibits 70% strength retained via ASTM D4355