

Geocomposite

300 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	300 (7.6)		
Peak Tensile Strength MD, lbs./ in. (N/mm)	ASTM D5035/7179	50,000 sf	75 (13.3)		
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	8 x 10 ⁻³ (38.6)		

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	9 x 10 ⁻⁴ (4.3)	9 x 10 ⁻⁴ (4.3)	7 x 10 ⁻⁴ (3.4)
	ASTM D4716	500,000 sf - Single	3 x 10 ⁻³ (14.5)	3 x 10 ⁻³ (14.5)	2 x 10 ⁻³ (9.6)

SUPPLY INFORMATION

Standard Roll Length ⁽⁴⁾	at Fabric Weight	6-oz	8-oz	10-oz
Double Sided		160	150	140
Single Sided		180	180	170

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 componet exhibits 70% strength retained via ASTM D4355

