## **⊟**TENDRAIN™

## Double-Sided Geocomposite @ 25,000 psf

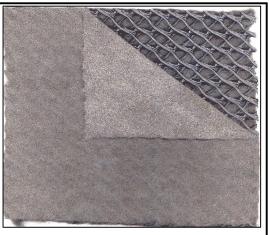
TENDRAIN™ geocomposite is comprised of a tri-axial geonet structure consisting of thick supporting ribs with diagonally placed top and bottom ribs and with thermally bonded, nonwoven, AASHTO Class 2 geotextiles on both sides. The product is capable of providing high Transmissivity in a soil environment under high normal loads and will have properties conforming to the values and test methods listed

Property	Test Methods	Units	Value	Qualifier	Test Frequency
Resin					
<ul><li>Density</li></ul>	ASTM D 1505	g/cm <sup>3</sup>	0.94	MAV	lot
Melt Flow Index	ASTM D 1238	g/10min	1.0	MAX	lot
Geonet Core <sup>3</sup>	701 10				
Structure	Tri-axial	1 10000 1000000 21		3737.72.90	(T)(C)(C)(C)(C)
<ul> <li>Tensile Strength - MD</li> </ul>	ASTM D 4595	lb/ft (kN/m)	1200 (17.5)	MAV	50,000 sf
Creep Reduction Factor	GRI-GC8	•			
@ 25,000 psf, 20° C			1.2		
@ 15,000 psf, 40° C			1.2		
Thickness <sup>3</sup>	ASTM D 5199	mil (mm)	315 (8.0)	MAV	50,000 sf
Carbon Black	ASTM D 4218	%	2-3	Range	50,000 sf
Geotextile <sup>4,5</sup>					
U.V. Resistance (500 hrs)	ASTM G 154	%	70	MAV	Per formula
Serviceability Class	AASHTO M-288		Class 2		
Grab Tensile	ASTM D 4632	lbs (N)	157 (700)	MARV	100,000 sf
Tear Strength	ASTM D 4533	lbs (N)	56 (250)	MARV	100,000 sf
Puncture Resistance	ASTM D 4833	lbs (N)	56 (250)	MARV	100,000 sf
CBR Puncture Strength	ASTM D 6241	lbs (N)	346 (1540)	MARV	100,000 sf
AOS	ASTM D 4751	US Std. Sieve (mm)	70 (0.212)	MaxARV	500,000 sf
Permittivity	ASTM D 4491	Sec-1	0.5	MARV	500,000 sf
1	Falling head				
Geocomposite					
Peel Adhesion <sup>6</sup> - MD	ASTM D 7005	lb/in (g/in)	1.0 (454)	MAV	100,000 sf
Labeling	Product code, geotex	tile type, roll dimensio	ns, finished	product lot a	nd roll number.
Hydraulic Behavior of Geocor	mposite				
■ Transmissivity <sup>7</sup> - MD		•	•	•	•
Gradient / Load					
0.1 @ 25,000 psf (1200 kPa)	ASTM D 4716 / GRI - GC8	m2/sec	5.0*10*	MAV	200,000 sf
0.02 @ 25,000 psf (1200 kPa)	ASTM D 4716 / GRI - GC8	m2/sec	1.0*10-3	MAV	200,000 sf



ARV = Minimum Average Roll Value (MARV) W = Minimum Average Value X = Maximum Value xARV = Maximum average roll value

- Creen Reduction Factor is based on 10,000 hour test duration, extrapolated to 30 years, under the corresponding compressive load and temperature.
- Retained thickness is measured through 5,000 hours duration, under a compressive load of 15,000 psf and temperature of 40°C.
- Thickness measured by manufacturer per ASTM D5199 with a 2.22 in. diameter presser foot and 2.9 psi pres-
- Geotextile and geonet properties listed are prior to lami-
- Geotextile meets AASHTO Standard Specification M 288-00 strength requirements of class 1 and the highest
- Peel adhesion is tested by the manufacturer per ASTM D 7005. The geotextile bonded to either side of the geonet is pulled apart at a peeling rate of 12 in/min., for at least 4 inches of peeling distance. The 5 samples are cut evenly distributed along the roll width with a 1foot margin from both edges of the roll.
- Geocomposite transmissivity measured by manufacturer per ASTM D4716 with testing boundary conditions as follows: steel plate / Graded Ottawa sand / geocomposite / 60 mil HDPE geomembrane / steel plate, and seating period of 100 hours according to GRI-GC8. Digital indicator of hydraulic gradient is required during the transmissivity measurement at low gradient. For low gradient test, digital indicator of hydraulic gradient is required during the transmissivity measurement.









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## ROOT PROTECTION MATTING



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