

TENAX ROCK-in-ROLL

Drainage Geocomposite

PROPERTY	TEST METHODS	UNITS	VALUE	QUALIFIER
Resin				
Density	ASTM D 1505	g/cm ³	0.94	MAV
Melt Flow Index	ASTM D 1238	g/10 min	1.0	MAX

Geonet Core

Structure	Tri-planar consists of main-ribs with diagonally placed top and bottom ribs			
Geonet Cross-Rib Spacing	Calibered	inch (mm)	0.4 (10.0)	Typical
Geonet Main-Rib Spacing	Calibered	inch (mm)	0.5 (12.5)	Typical
Unsupported Aperture Area		inch ² (mm ²)	0.3 (195)	MAX
Creep Reduction Factor ² @ 10,000 psf, 20°C	GRI-GC8	-	1.3	-
Thickness	ASTM D 5199	mil (mm)	250 (6.3)	±10%
Carbon Black	ASTM D 4218	%	1.0 – 3.0	Range

Geotextile

U.V Resistance (500 hrs)	ASTM D 4355	%	70	
Serviceability Class	AASHTO M-288	-	Class 2	
Grab Tensile	ASTM D 4632	lbs (N)	160 (712)	MARV
Tear Strength	ASTM D 4533	lbs (N)	60 (267)	MARV
Puncture Resistance	ASTM D 4833	lbs (N)	85 (378)	MARV
AOS	ASTM D 4751	US Sieve (mm)	70 (0.21)	MaxARV
Permittivity	ASTM D 4491 Falling Head	Sec. ⁻¹	1.1	MARV

Geocomposite

Roll Size	6.7' X 15' (2m x 4.6m)			
Transmissivity ³ - Machine Direction Load 10,000 psf (480 kPa); Gradient 0.02	ASTM D 4716	m ² /sec	1.5 X 10 ⁻³	MAV
Coefficient of Permeability ⁴ – Flow in the main-rid direction	ASTM D 4716 GRI-GC8	m/sec (ft/day)	0.23 (65,200)	MAV

NOTES:

1. Geonet and Geotextile properties listed are prior to lamination.
2. Creep reduction factor is based on 10,000 hours test duration, extrapolated to 30 years, under the corresponding compressive load and temperature.
3. Geocomposite transmissivity is measured by manufacturer per STM D4716 with testing boundary conditions as follows: steel plate/ geocomposite/ Ottawa sand/ steel plate, and seating period of 100 hours. Digital indicator of hydraulic gradient is required during the transmissivity measurement at low gradient.
4. Coefficient of permeability is calculated with the measured geocomposite transmissivity.

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