

TENAX UBXC1 100-2 Biaxial - Geocomposite

The drainage geocomposite is comprised of a geonet structure with thermally bonded non-woven geotextile on both sides. The product is capable of providing high transmissivity and will have properties conforming to the values and test methods listed below.

PROPERTY	TEST METHODS	UNITS	VALUE	QUALIFIER	TEST FREQUENCY
Resin					
• Density	ASTM D 1505	g/cm ³	0.94	MAV	lot
• Melt Flow Index	ASTM D 1238	g/10min	1.0	MAX	lot
Geonet Core^{1,2}					
• Thickness	ASTM D 5199	mil	225	± 10 %	50,000 sf
• Carbon Black	ASTM D 4218	%	2-3	range	50,000 sf
• Tensile Strength - MD	ASTM D 5035	lb/ft	660	± 10%	50,000 sf
• Transmissivity ³ - MD	ASTM D 4716	m ² /sec	3 x 10 ⁻³	MAV	
Geotextile¹					
• U.V. Resistance (500 hrs)	ASTM D 4355	%	70		Per formula
• Mass	ASTM D5261	oz/yd ²	8	MARV	100,000 sf
• Grab Tensile	ASTM D 4632	lbs (N)	202 (900)	MARV	100,000 sf
• Grab Elongation	ASTM D 4632	%	50	MARV	100,000 sf
• Tear Strength	ASTM D 4533	lbs (N)	79 (350)	MARV	100,000 sf
• Puncture Resistance	ASTM D 4833	lbs (N)	110 (490)	MARV	100,000 sf
• AOS ⁴	ASTM D 4751	US Sieve (mm)	80 (0.18)	MaxARV	500,000 sf
• Permittivity ⁴	ASTM D 4491	Sec ⁻¹	1.0	MARV	500,000 sf
Geocomposite					
• Roll Sizes	12.5 ft x 200 ft				
• Peel Adhesion – MD	ASTM D7005	lb/in	1	MAV	100,000 sf
• Transmissivity ³ - MD	ASTM D 4716	m ² /sec	3 x 10 ⁻⁴	MAV	200,000 sf

Qualifiers: MARV=Minimum Average Roll Value (MARV), MAV=Minimum Average Value, MAX=Maximum Value, MaxARV=Maximum average roll value.

- NOTES:
1. Geotextile and geonet properties listed are prior to lamination.
 2. Bi-axial geonet consists of thick main-ribs with diagonally placed top ribs.
 3. Transmissivity is measured under normal load of 10,000 psf, gradient of 0.1, water at 70°F (20°C), between two steel plates for 15 minutes.
 4. Hydraulic properties: AOS and permittivity are only applicable to the top filter geotextile.