

SYNTEC PRODUCT SPECIFICATION

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SYNTEC
GEOSYNTHETICS EVOLVED

UBXC1 100-2 Bi-Planar - Geocomposite

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

PROPERTY	TEST METHODS	UNITS	VALUE	QUALIFIER	FREQUENCY
RESIN					
Density	ASTM D 792	g/cm ³	0.94	MAV	Lot
Melt Flow Index	ASTM D 1238	g/10 min	1.0	MAX	Lot
BI-PLANAR GEONET^{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 – MD Plate/Geonet/Plate, Gradient = 0.1 @ 10,000 psf 15 minutes seating period	ASTM D 4716	m ² /sec	3.0*10 ⁻³	MAV	
GEOTEXTILE²					
U.V. Resistance (500 hrs)	ASTM D 4355	%	70	MARV	Per formula
Grab Tensile	ASTM D 4632	lbs (N)	203 (902)	MARV	100,000 sf
Grab Elongation	ASTM D 4632	%	50	MARV	100,000 sf
Tear Strength	ASTM D 4533	lbs (N)	80 (356)	MARV	100,000 sf
CBR Puncture	ASTM D 6241	lbs (N)	500 (2,223)	MARV	100,000 sf
AOS	ASTM D 4751	US Std Sieve(mm)	80 (0.18)	MaxARV	500,000 sf
Permittivity	ASTM D 4491	sec ⁻¹	1.1	MARV	500,000 sf
Water Flow Rate	ASTM D 4491	gpm/ft ² (l/min/m ²)	90 (3675)	MARV	500,000 sf
GEOCOMPOSITE					
Bond Strength (Ply Adhesion) -MD					
Peak	ASTM D 7005	lbs/in	1.0	MAV	100,000 sf
Average			0.5		
Transmissivity – MD					
Plate/Geocomposite/Plate, Gradient = 0.1 @ 10,000 psf 15 minutes seating period	ASTM D 4716	m ² /sec	3.0*10 ⁻⁴	MAV	500,000 sf
DIMENSIONS AND DELIVERY					
The geocomposite shall be delivered to the jobsite in roll form with each roll identified and nominally measuring 12.75 feet (3.89 meters) in width and 200 feet (61 meters) in length					

Qualifiers: MARV=Minimum Average Roll Value, MaxARV= Maximum Average Roll Value, MAV=Minimum Average Value, MAX=Maximum Value, MD= Machine Direction.

NOTES: 1. Bi-Planar geonet consists of main-ribs with diagonally placed top ribs.
2. Geotextile and geonet properties listed are prior to lamination.