

SYNTEC PRODUCT SPECIFICATION

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SYNTEC
 GEOSYNTHETICS EVOLVED

TENFLOW 7100-2 Double-Sided Geocomposite

Incorporates a tri-planar geonet manufactured by extruding three sets of HDPE strands forming a three dimensional structure to provide planar water flow. Tenflow 7100-2 is capable of providing high transmissivity in a soil environment and will have properties conforming to the values and test methods listed below.

PROPERTY	TEST METHODS	UNITS	VALUE	QUALIFIER	FREQUENCY
TRI-PLANAR GEONET¹					
Thickness	ASTM D 5199	mil (mm)	350 (8.9)	MAV	100,000 sf
Density	ASTM D 792	g/cm ³	0.94–0.96	Range	100,000 sf
Melt Flow Index	ASTM D 1238	g/10 min	1.0	MAX	100,000 sf
Carbon Black	ASTM D 4218	%	2-3	Range	100,000 sf
Thickness Retained From 10,000 hour creep test under 2,000 psf, and 20°C temperature	GRI-GC8	%	92	-	-
Creep Reduction Factor From 10,000 hour creep test under 2,000 psf, and 20°C temperature	GRI-GC8	-	1.05	-	-
GEOTEXTILE¹					
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		
Transmissivity² – MD					
Plate/Ottawa Sand/Geocomposite/ Geomembrane/Plate, Gradient = 0.1 @ 1,000 psf 100 hour seating period	ASTM D 4716	m ² /sec	7.0*10 ⁻³	MAV	500,000 sf
Plate/Ottawa Sand/Geocomposite/ Geomembrane/Plate, Gradient = 0.33 @ 1,000 psf 100 hour seating period			4.0*10 ⁻³		
DIMENSIONS AND DELIVERY					
The geocomposite shall be delivered to the jobsite in roll form with each roll identified and nominally measuring 12.5 feet (3.81 meters) in width and 200 feet (61 meters) in length.					

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

NOTES: 1. Geotextile and geonet properties listed are prior to lamination. 2. The Tenflow geonet has a circular aperture side and a cusped side, The side with circular apertures should be placed against the soil while the cusped side should be placed against the geomembrane as indicated with "Top"/"Bottom" labels on the rolls.