

# SYNTEC PRODUCT SPECIFICATION

## SYNTEC, LLC

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**SYNTEC**  
GEOSYNTHETICS EVOLVED

## TENAX ROCK-in-ROLL™

TENAX Rock-in-Roll™ is a high tensile strength, low compressibility void-maintaining drainage geocomposite. It is comprised of a tri-planar geonet structure consisting of thick supporting ribs with diagonally placed top and bottom ribs and thermally bonded non-woven geotextiles on both sides. Rock-in-Roll™ replaces 6 inches of gravel underneath concrete slabs, minimizes concrete slab curling, and provides a capillary break. In addition, Rock-in-Roll™ provides a uniform supportive layer underneath the floor slab to bridge weak spots, and separate subgrade soils from the concrete slab.

PROPERTY	TEST METHODS	UNITS	VALUE	QUALIFIER
<b>RESIN</b>				
Density	ASTM D 792	g/cm <sup>3</sup>	0.94	MAV
Melt Flow Index	ASTM D 1238	g/10 min	1.0	MAX
<b>GEONET GEONET<sup>1</sup></b>				
Structure	Tri-planar consists of main-ribs with diagonally placed top and bottom ribs			
Geonet Cross-Rib Spacing	Calibrated	inch (mm)	0.4 (10.0)	Typical
Geonet Main-Rib Spacing	Calibrated	inch (mm)	0.5 (12.5)	Typical
Unsupported Aperture Area		inch <sup>2</sup> (mm <sup>2</sup> )	0.3 (195)	MAX
Creep Reduction Factor From 10,000 hour creep test under 10,000psf, and 20°C temperature	GRI-GC8		1.3	
Thickness	ASTM D 5199	mil (mm)	250 (6.3)	±10 %
Carbon Black	ASTM D 4218	%	1-3	Range
<b>GEOTEXTILE<sup>1</sup></b>				
U.V. Resistance (500 hrs)	ASTM D 4355	%	70	MARV
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 (266)	MARV
CBR Puncture	ASTM D 6241	lbs (N)	400 (1,776)	MARV
AOS	ASTM D 4751	US Std Sieve(mm)	70 (0.212)	MaxARV
Permittivity	ASTM D 4491	sec <sup>-1</sup>	1.4	MARV
<b>GEOCOMPOSITE</b>				
Roll Sizes	6.7 ft x 15 ft (2 m x 4.6 m)			
Coefficient of Permeability <sup>2</sup>	ASTM D4716	ft/day	56,700	MAV

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. Coefficient of permeability is calculated with the measured geocomposite transmissivity and the nominal geonet core thickness. The transmissivity is tested along the primary flow direction with the boundary conditions as follows: steel plate/ Ottawa sand/ geocomposite/ Ottawa sand/ steel plate, 1 hour seating period @ 5,000 psf and gradient 2%.

Manufactured for Tenax Corporation, 4800 E. Monument Street, Baltimore, MD 21205