

TE-BX2

BI-AXIAL POLYPROPYLENE GEOGRID



Titan's TE-BX is a bi-axial polypropylene (PP) geogrid. It is manufactured using a punching and drawing process whereby the polypropylene sheet is stretched in two directions, machine (longitudinal) and cross-machine (transverse). The result is a monolithic geogrid with thick and wide ribs, thick integral nodes, and rectangular apertures. The ribs have a high degree of molecular orientation continuing in part through the mass of the integral node. Engineered to be mechanically and chemically stable in aggressive soil environments, TE-BX's geometry allows for strong mechanical interlock with soil particles and features high tensile stiffness at low strains to resist construction damage, environmental exposure and formulated to resist UV degradation. It is also not susceptible to hydrolysis, environmental stress cracking and micro-organism attack.

TESTED PROPERTY	TEST METHOD	UNIT ENGLISH (METRIC)	MARV ⁽¹⁾ VALUE ENGLISH (METRIC)	
			MD	XD
Aperture Dimensions ⁽²⁾	nominal	in (mm)	1.02 (26)	1.34 (34)
Minimum Rib Thickness ⁽²⁾	Callipered	in (mm)	0.06 (1.6)	0.04 (1.1)
Ultimate Tensile Strength	ASTM D 6637	lbs/ft (kN/m)	1,310 (19.2)	1,970 (28.8)
Tensile Strength at 2% Strain	ASTM D 6637	lbs/ft (kN/m)	410 (6)	620 (9)
Tensile Strength at 5% Strain	ASTM D 6637	lbs/ft (kN/m)	850 (11.8)	1,340 (19.6)
Junction Efficiency ⁽⁴⁾	GRI-GG ₂	%	>95	
Flexural Stiffness ⁽⁵⁾	ASTM D 5732-001	mg-cm	750,000	
Aperture Stability	US COE	m-N/deg	0.65	
Resistance to UV degradation ⁽³⁾ @ 500 hours	ASTM D 4355	%	100	
TYPICAL ROLL DIMENSIONS				
Roll Width		ft (m)	12.95 (3.95)	
Roll Length		ft (m)	164 (50)	

Notes:

1. Unless otherwise noted, values shown are minimum average roll values determined in accordance with ASTM D 4759-02.
2. Nominal Dimensions.
3. Average.

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