

GRIDPRO™ BXP11 is a punched and drawn geogrid containing polypropylene that is integrally formed into a biaxial geogrid. GRIDPRO BXP11 will meet the following Minimum Average Roll Values (MARV) when tested in accordance with the methods listed below. These characteristics make GRIDPRO BXP11 ideal for the construction of unpaved or asphalt paved roads, steepened slopes, and modular block and/or wrapped-face retaining walls. The geogrid is resistant to ultraviolet degradation and to biological and chemical environments normally found in soils.

PROPERTY	TEST METHOD	MARV ²	
		ENGLISH	METRIC
ORIGIN OF MATERIALS			
% U.S. Manufactured		100%	100%
INDEX PROPERTIES			
Aperture Dimensions ²		1 x 1.4 in	25.4 x 35.6 mm
Minimum Rib Thickness ²		0.03 x 0.03 in	0.76 x 0.76 mm
Tensile Strength @ 2% Strain ³	ASTM D6637	280 x 450 lb/ft	4.1 x 6.6 kN/m
Tensile Strength @ 5% Strain ³	ASTM D6637	580 x 920 lb/ft	8.5 x 13.4 kN/m
Ultimate Tensile Strength ³	ASTM D6637	850 x 1300 lb/ft	12.4x19 kN/m
STRUCTURAL PROPERTIES			
Junction Efficiency ⁴	GRI-GG2-05	93%	93%
Flexural Stiffness ⁵	ASTM D7748	250000 mg-cm	250000 mg-cm
Aperture Stability ⁶		0.32 m-N/deg	0.32 m-N/deg
DURABILITY			
Resistance to Installation Damage ⁷	ASTM D6637	95/93/90 %SC/%SW/%GP	95/93/90 %SC/%SW/%GP
Resistance to Long Term Degradation ⁸	EPA 9090	100%	100%
Resistance to UV Degradation ⁹	ASTM D4355	100%	100%
ROLL SIZES		12.9 ft x 328 ft 13.1 ft x 246 ft	3.93 m x 100.0 m 4.0 m x 75.0 m

NOTES:

- The property values listed above are effective 12/20/2018 and are subject to change without notice. Values represent testing at time of manufacture.
- Nominal dimensions.
- True resistance to elongation when initially subjected to a load determined in accordance with ASTM D6637-15 without deforming test materials under load before measuring such resistance or employing "secant" or "offset" tangent methods of measurement so as to overstate tensile properties.
- Load transfer capability determined in accordance with ASTM D7737-15 and expressed as a percentage of ultimate tensile strength.
- Resistance to bending force determined in accordance with ASTM D7748-14, using specimens of width two ribs wide, with transverse ribs cut flush with exterior edges of longitudinal ribs (as a "ladder"), and of length sufficiently long to enable measurement of the overhang dimension.
- Resistance to in-plane rotational movement measured by applying a 20 kg-cm (2 m-N) moment to the central junction of a 9 inch x 9 inch specimen restrained at its perimeter in accordance with the U.S. Army Corps of Engineers Methodology for measurement of Torsional Rigidity.
- Resistance to loss of load capacity or structural integrity when subjected to mechanical installation stress in clayey sand (SC), well graded sand (SW), and crushed stone classified as poorly graded gravel (GP). The geogrid shall be sampled in accordance with ASTM D6637-15.
- Resistance to loss of load capacity or structural integrity when subjected to chemically aggressive environments in accordance with EPA 9090 immersion testing.
- Resistance to loss of load capacity or structural integrity when subjected to 500 hours of ultraviolet light and aggressive weathering in accordance with ASTM D4355-14.

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