

## DATA SHEET

**BX-3000**

PRODUCT DESCRIPTION : Biaxial geogrid, extruded in a single layer

FUNCTION : Reinforcement

RAW MATERIAL : Polypropylene

### TECHNICAL DATA TABLE

	PROPERTIES	TEST METHOD	VALUES	
			Metric	Imperial
PHYSICAL	Aperture size	-	39 mm x 39 mm (± 1 mm)	1.54 in x 1.54 in (± 0.04 in)
	Carbon black content	ASTM D4218	2%	
	Average rib thickness	-	2.0 mm	80 mils
MECHANICAL	Tensile strength. at 2 % strain <sup>(1)</sup>	ASTM D6637	12.0 kN/m	822 lb/ft
	Tensile strength. at 5 % strain <sup>(1)</sup>	ASTM D6637	21.6 kN/m	1480 lb/ft
	Ultimate tensile strength <sup>(1)</sup>	ASTM D6637	30.0 kN/m	2056 lb/ft
	Junction strength <sup>(1)</sup>	GRI-GG2	27.9 kN/m	1912 lb/ft
	Flexural stiffness/rigidity	ASTM D7748	4806 g-cm (MD) - 2619 g-cm (CMD)	
	Aperture stability <sup>(2)</sup>	-	5.7 kg-cm/deg @ 20 kg-cm torque	
	Radial stiffness at low strain <sup>(3)</sup>	-	384.9 kN/m @ 0.5 % strain	
	Multi-axial tension test	-	-	
	- Vessel pressure at rupture	-	107.6 kPa	15.6 psi
	- Axisymmetric break resistance strain	ASTM D7748	7.3 %	
	- Average deflection at rupture	-	102 mm	4080 mils
PERFORMANCE AND DURABILITY	pH resistance	-	2 - 13	
	UV** resistance (500 hours)	ASTM D4355	100%	
DIMENSIONS	Standard width	-	3.95 m	13 ft
	Standard length	-	50 m	164 ft

NOTE 1 : Values shown are MARV as per GRI.

NOTE 2 : In-plane torsional rigidity, measured by applying a moment of 20 kg-cm, at the central junction of a 225 mm x 225 mm specimen (8.85 in x 8.85 in).

*U.S. Army Corps of Engineers Methodology (Kinney, T.C. Aperture Stability Modulus ref 3, 3.1.2000).*

NOTE 3 : Radial stiffness is determined from tensile stiffness measured in any in-plane axis from testing in accordance with ASTM D6637-01.

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APPLICATIONS :

Temporary roadway	Storage and loading areas
Permanent public roadway	Roadway widening
Permanent private roadway	Airport runways
Public access road	Railway track
Commercial parking areas	