

EXCELLENT STABILISATION, SEPARATION AND FILTRATION

GEOFABRICS GEOGRID BITEX GEOCOMPOSITE

TECHNICAL DATA SHEET

Geofabrics® Geogrid™ Bitex® geocomposite combines Australian made Bidim® Green, a premium non-woven geotextile made from Australian recycled plastic material, and biaxial geogrid. These products are laminated together to create a high-performance geocomposite.

- Offers separation, filtration and aggregate interlock simultaneously
- Uses Bidim Green geotextile layers, made with a combination of recycled PET and virgin plastic material
- Enhanced structural characteristics results in more economical construction, improved performance and longer life
- Improved cost benefits by reducing aggregate layer thickness, the need for excavation and increasing bearing capacity to allow for higher loads
- Applicable to Road & Rail sectors



BIDIM GREEN - A14G - A49G CHARACTERISTIC VALUES TECHNICAL DATA

QLD MRTS27 NSW TfNSW R63 NZ TNZ F/7						
GRADE	STRENGTH CLASS	GRAB TENSILE STRENGTH	TRAPEZOIDAL TEAR STRENGTH	G RATING	EOS - PORE SIZE - 0 ₉₅	FLOW RATE (Q ₁₀₀)
		N	N	-	µm	l/m ² /s
		AS 3706.2	AS 3706.3	AUSTROADS 90	AS 3706.7	AS 3706.9
		Q VALUE	Q VALUE	Q VALUE	MEAN	MEAN
A14G	A	≥ 500	≥ 180	≥ 900	≤ 120	≥ 50
A19G	B	≥ 700	≥ 250	≥ 1350	≤ 120	≥ 50
A29G	C	≥ 900	≥ 350	≥ 2000	≤ 120	≥ 50
A39G	D	≥ 1200	≥ 450	≥ 3000	≤ 120	≥ 50
A49G	E	≥ 1600	≥ 650	≥ 4500	≤ 120	≥ 50

The data contained in this table is obtained from the manufacturer's laboratory testing. To ensure this information is current please contact your local branch of Geofabrics Australasia.

1. Permittivity / Q100 - NSW and NZ ranges do not require characteristic Q values, however QLD Q value specification is met by all Bidim Green A range geotextile.
2. Characteristic value (Q) = Mean - 0.83 x standard deviation of the lot tested.
3. All grades meet filtration classes I - VIII for MRTS27 Geotextiles (Separation and Filtration).
All grades meet filtration classes 1-5 for TfNSW R63 QA Specifications - Geotextiles (Separation and Filtration).
All grades meet filtration classes 1-4 for TNZ F/7 : Specifications - Geotextiles.

BIDIM GREEN: A12G - A64G TYPICAL VALUES TECHNICAL DATA

TEST	STANDARD	UNITS	A12G	A14G	A24G	A34G	A44G	A64G						
Mechanical Properties														
Wide Strip Tensile Strength (MD/XMD)	AS3706.2	kN/m	8.0	8.0	11.0	11.0	14.0	14.0	18.5	18.5	26.5	26.5	37.5	37.5
Wide Strip Toughness (MD/XMD)	AS3706.2	kJ/m ²	1.5	1.5	2.5	2.5	2.7	2.7	3.5	3.5	4.8	4.8	8.2	8.2
Grab Tensile Strength (MD/XMD)	AS3706.2	N	500	500	720	720	850	850	1,270	1,270	1,850	1,850	2,620	2,620
Trapezoidal Tear Strength (MD/XMD)	AS3706.3	N	200	200	300	300	345	345	440	440	590	590	830	830
CBR Burst Strength	AS3706.4	N	1,500		2,000		2,500		3,400		4,650		6,400	
G Rating	Austrroads	-	1,200		1,550		2,000		2,510		3,500		5,100	
Hydraulic Properties														
Pore Size (O ₉₅)	AS3706.7	µm	130		110		80		75		75		75	
Permittivity	AS3706.9	s ⁻¹	3.40		3.20		2.65		1.75		1.35		0.90	
Coefficient of Permeability	AS3706.9	m/s x10 ⁻⁴	43		43		43		43		43		43	
Flow Rate @ 100mm Head	AS3706.9	l/m ² /sec	340		320		265		175		135		90	

The typical values, data and specifications published are to the best of our knowledge true and correct and are obtained from thorough independent and in-house laboratory testing. The product specification may change at any time without prior notice. No warranty is expressed or implied. Manufactured by Geofabrics Australasia Pty Ltd in a facility certified to the ISO 9001 Quality Management System Standard.

GEOFABRICS GEOGRID BITEX

Stiff monolithic geogrids with integral junctions made from a punched polypropylene sheet, which is then orientated in two directions. The resulting ribs of rectangular cross section have a high degree of molecular orientation which continues through the mass of integral node.

TECHNICAL DATA

PROPERTY	TEST METHOD	UNITS	Biaxial 3030	Biaxial 4040
Polymer			Polypropylene	
Carbon Black Content	ASTM D1603	%	2	
Minimum Roll Width	-	m	3.95	3.95
Minimum Roll Length	-	m	50 / 100	50 / 100
Quality Control Strength (MD/CD)				
Ultimate Tensile Strength T _{ult}	ASTM D6637	kN/m	30 / 30	40 / 40
Tensile strength @ 2% strain	ASTM D6637	kN/m	10.5 / 10.5	14 / 14
Tensile strength @ 5% strain	ASTM D6637	kN/m	21 / 21	28 / 28
Strain at T _{ult}	ASTM D6637	%	13 / 13	13 / 13

Notes:

(MD) = Machine Direction, (CD) = Cross Machine Direction Strength.
All quoted values and dimensions are typical unless stated otherwise.

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