

bidim[®] Eco

NON-WOVEN GEOTEXTILE



 **RECYCLED GEOTEXTILE**

 **RECYCLED WRAP**

 **RECYCLED CORE**

GEOFABRICS[®]
Smarter Infrastructure

bidim[®] Eco is manufactured of 100% recycled polyester from discarded drink bottles.

These high-performance geotextiles provide significant advantages over conventional techniques when used in civil engineering applications. **The bidim[®] Eco** is manufactured from 100% polyester which has the advantage over other man-made fibres of having a better modulus of deformation, higher resistance to temperature (melt point 260°C), being less sensitive to UV degradation and improved wettability.

The mechanical process of needle punching imparts the following characteristics:

- An appreciable thickness
- High porosity, even under heavy loads
- A high resistance to puncture, tearing and burst
- A high drainage capacity in both the horizontal (transmissivity) and vertical (permeability) planes
- A flexibility/conformability which is advantageous during laying operations

MECHANICAL PROPERTIES	TEST METHOD	UNITS		A14K	A19K	A29K	A39K	A44K	A49K	A64K
Wide Strip Tensile Strength (MD/XMD)	AS3706.2-00	kN/m	MARV Typical	9.0 / 8.0 11.2 / 10.3	13.0 / 11.5 16.8 / 14.4	16.0 / 15.0 20.0 / 18.5	27.0 / 23.0 31.2 / 27.0	29.0 / 26.0 35.0 / 33.0	36.0 / 32.0 47.0 / 41.0	38.0 / 37.0 50.0 / 45.0
Trapezoidal Tear Strength (MD/XMD)	AS3706.3-00	N	MARV Typical	225 / 215 315 / 300	300 / 280 450 / 410	350 / 350 530 / 490	520 / 470 632 / 547	590 / 550 750 / 650	750 / 750 1000 / 935	775 / 775 1050 / 950
CBR Burst Strength	AS3706.4-01	N	MARV Typical	1700 2000	2200 2700	2800 3400	4370 4890	4700 5300	6000 7300	6400 7500
G Rating	Austrroads	G	MARV Typical	900 999	1350 1499	2000 2220	3000 3330	3300 3663	4500 4995	4650 5162
Grab Tensile Strength (MD/XMD)	AS2001.2.3.2	N	MARV Typical	510 / 500 680 / 670	750 / 800 1021 / 970	1008 / 866 1315 / 1224	1480 / 1440 1880 / 1762	1700 / 1700 2150 / 2000	2270 / 2370 3019 / 2920	2400 / 2450 3100 / 3000
HYDRAULIC PROPERTIES	TEST METHOD	UNITS		A14K	A19K	A29K	A39K	A44K	A49K	A64K
Pore Size	AS3706.7-90	µm	Typical	80	80	80	75	75	75	75
Flow Rate @ 100mm Head	AS3706.9-01	l/m ² /s	Typical	180	150	110	95	95	80	80
TNZ F/7 (2003)										
Strength Class				A	B	C	D	D	E	E
Filtration Class				1 - 4	1 - 4	1 - 4	1 - 4	1 - 4	1 - 4	1 - 4

bidim® geotextiles manufactured under a Quality System certified as complying with ISO 9001 by an accredited certification body. The product properties listed on this sheet include MARV and typical values for machine (MD) and cross machine (XMD) directions obtained in accredited laboratory QA tests.

GNZ 07-20

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