

TECHNICAL DATA SHEET:

## **BIDIM® "K"**

### **Non-woven Geotextile**

## **bidim® "K" Range are non-woven, needlepunched, continuous filament, polyester geotextiles**

These high-performance geotextiles provide significant advantages over conventional techniques when used in civil engineering applications. Bidim® K 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 (permittivity) planes
- A flexibility/conformability which is advantageous during laying operations

### **SUGGESTED SEGMENT**



Roads



Rail



Coastal



Waste



Mining



Civic &  
Landscaping



Ports &  
Aviation



Water



Primary  
Industries



Sports &  
Recreation



Slopes &  
Walls



Building

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

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