

Product Name: **bidim®**

Description: “A” Range Nonwoven, Needle punched, Continuous Filament, Polyester Geotextile Manufactured in RSA by Kaytech Atlantis, an ISO 9001:2008 accredited facility

Mechanical Properties			A1	A2	A3	A4	A5	A6	A7	A8	A10		
Mass	g/m ²		140	150	180	200	280	340	540	750	1000		
Thickness	Under 2 kPa	mm	1.2	1.4	1.6	1.8	2.6	3.1	4.4	5.2	6.4	SANS 9863-1 / ISO 9863-1	
		Typical kN/m	7.8	9.0	11.5	14.0	19.5	26.0	40.0	50.0	56.0	*SANS 1525 / ISO 10319	
Tensile Strength (200mm wide strip)	Weaker Direction	MARV kN/m	7.0	8.1	10.3	12.6	17.2	22.2	35.0	46.0	50.0		
		Elongation	%	50 – 70									
Static Puncture Strength	CBR	Typical kN	1.5	1.9	2.2	2.7	3.6	4.8	7.1	9.5	11.7	*SANS 12236 / ISO 12236	
		MARV kN	1.3	1.7	2.0	2.5	3.4	4.3	6.5	9.0	11.0		
Puncture Resistance	Diameter of hole (max)	mm	30	27	25	19	16	13	8	6	3	SANS 13433 / ISO 13433	
Trapezoidal Tear Strength	Weaker Direction	Typical N	240	320	375	440	600	800	1200	1600	2100	ASTM D4533	
		MARV N	205	245	330	375	500	650	1050	1330	1950		
Grab Strength	Weaker Direction	Typical N	500	600	730	900	1250	1550	2500	3260	4700	ASTM D4632	
		MARV N	450	525	700	850	1100	1410	2100	2815	3700		
	Elongation	%	50 - 80										
Hydraulic Properties													
Normal Throughflow	@ 50mm head	ℓ/s/m ²	200	150	125	100	80	70	45	30	20	SANS 11058 / ISO 11058	
Flow Velocity	Calculation based on throughflow & thickness	m/s	0.200	0.150	0.130	0.100	0.080	0.070	0.045	0.030	0.020		
Permeability		x10 ⁻³ m/s	4.8	4.2	4.0	3.6	4.2	4.3	4.0	3.1	2.6		
In-plane Throughflow	20 kPa load i = 1.0	ℓ/hr (per m width)	20	30	35	40	50	58	80	90	110	ISO 12958	
Pore Size	O ₉₅ w	μm	200	170	155	138	132	130	114	< 75	< 75	SANS 12956 / ISO 12956	
Roll Dimensions													
Width	Standard	m	1.32, 1.76, 2.65, 3.53 & 5.3					2.65 & 5.3					
Length	Standard	m	150	150	150	150	150	75	75	50	50		

The above values include both Typical and Minimum Average Roll Values (MARV) and are determined from the specified tests carried out by an accredited laboratory. To ensure this information is current please contact your local Kaytech sales office.