



# Verdatex VNW 200 - 600

## Coloured Needle Punched Nonwoven Geotextile Specification

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	Test	Units	VNW 200-PP-C	VNW 300-PP-C	VNW 400-PP-C	VNW 450-PP-C	VNW 500-PP-C	VNW 600-PP-C
<b>Mechanical Properties</b>								
Tensile strength - MD	EN ISO 10319	kN/m	6.6	10	14	15.5	17.5	20
Tensile strength - CMD	EN ISO 10319	kN/m	11	18	24	27	30	36
Elongation at break - MD	EN ISO 10319	%	120	120	120	120	120	120
Elongation at break - CMD	EN ISO 10319	%	115	100	100	100	100	100
Static puncture resistance (CBR)	EN ISO 12236	kN	1.3	1.9	2.7	3	3.4	4
Dynamic perforation resistance (cone drop)	EN ISO 13433	mm	20	12	6	4	2	1

### Hydraulic Properties

Water permeability normal to the plane	EN ISO 11058	l/m <sup>2</sup> s	95	80	60	50	45	40
Waterflow in the plane @ 20 kPa	EN ISO 12958	m <sup>2</sup> /s	1x10-6	1x10-6	2x10-6	2x10-6	3x10-6	4x10-6
Characteristic opening size (O90)	EN ISO 12956	µm	130	125	120	120	115	105

### Physical Properties

Thickness under 2 kPa	EN ISO 9863-1	mm	2.5	3	3.6	3.8	4.5	5
Weight	EN ISO 9864	g/m <sup>2</sup>	200	300	400	450	500	600
Roll width		cm	525	525	525	525	525	525
Roll length		m	100	100	50/100	50/100	50/100	50/100
Truck load volume (+/- 10%)		m <sup>2</sup>	26000	18000	14000	12000	11000	10000
Roll diameter (+/- 10%)		cm	57	62	50/65	54/70	59/75	58/78

### Durability

			Description	
Natural UV light	ASTM D 4355	100%	Polymer	PP
Chemical resistance	EN 14030	100%	Density	0.91
Microbiological resistance	EN 12225	100%	Melting point	165
Hydrolysis	EN 12447	100%	Construction	Fibres
Oxidation resistance	EN ISO 13438	>90%		

The information set forth in this data sheet reflects the best knowledge at the time of publication. The document is subject to change pursuant to new developments and findings. The same reservation applies to the properties of the products described. No liability is undertaken for results obtained by usage of the products and information.



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# Verdatex VNW 700 - 2000

## Coloured Needle Punched Nonwoven Geotextile Specification

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	Test	Units	VNW 700-PP-C	VNW 800-PP-C	VNW 1000-PP-C	VNW 1200-PP-C	VNW 1800-PP-C	VNW 2000-PP-C
<b>Mechanical Properties</b>								
Tensile strength - MD	EN ISO 10319	kN/m	24.5	28	33	39	60	76
Tensile strength - CMD	EN ISO 10319	kN/m	42	48	63	75	117	100
Elongation at break - MD	EN ISO 10319	%	120	120	120	120	120	100
Elongation at break - CMD	EN ISO 10319	%	100	100	100	100	100	100
Static puncture resistance (CBR)	EN ISO 12236	kN	5	5.5	7.5	9.5	14	15
Dynamic perforation resistance (cone drop)	EN ISO 13433	mm	0.0	0.0	0.0	0.0	0.0	0.0

### Hydraulic Properties

Water permeability normal to the plane	EN ISO 11058	l/m <sup>2</sup> s	35	30	30	20	12	10
Waterflow in the plane @ 20 kPa	EN ISO 12958	m <sup>2</sup> /s	5x10-6	6x10-6	7x10-6	8x10-6	9x10-6	1x10-5
Characteristic opening size (O90)	EN ISO 12956	µm	100	90	85	80	70	65

### Physical Properties

Thickness under 2 kPa	EN ISO 9863-1	mm	6	6.5	7	8	11.5	12
Weight	EN ISO 9864	g/m <sup>2</sup>	700	800	1000	1200	1800	2000
Roll width		cm	525	525	525	525	525	3.9
Roll length		m	50	50	50	50	30	25
Truck load volume (+/- 10%)		m <sup>2</sup>	6500	6500	6000	4500	3000	4680
Roll diameter (+/- 10%)		cm	61	62	68	72	62	73

### Durability

			Description	
Natural UV light	ASTM D 4355	100%	Polymer	PP
Chemical resistance	EN 14030	100%	Density	0.91
Microbiological resistance	EN 12225	100%	Melting point	165
Hydrolysis	EN 12447	100%	Construction	Fibres
Oxidation resistance	EN ISO 13438	>90%		

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