



Verdatex NW5 - NW16 Geotextile Specification Sheet

Thermally Bonded Non Woven Geotextile

Mechanical Properties	Test	Units	NW 5	NW6	NW7	NW8	NW9	NW10	NW12	NW13	NW15	NW16
Tensile Strength - MD	EN ISO 10319	kN/m	5,0	6,0	7,0	8,0	9,0	10,0	12,0	13,0	15,0	16,0
Tensile Strength - XD	EN ISO 10319	kN/m	5,0	6,0	7,0	8,0	9,0	10,0	12,0	13,0	15,0	16,0
Elongation at break - MD	EN ISO 10319	%	40,0	40,0	40,0	40,0	40,0	40,0	40,0	45,0	45,0	45,0
Elongation at break - XD	EN ISO 10319	%	40,0	40,0	45,0	45,0	45,0	45,0	45,0	50,0	50,0	50,0
CBR Puncture Resistance	EN ISO 12236	N	850	890	1 200	1 240	1 500	1 600	1 780	2 200	2 500	2 400
Dynamic Cone Drop	EN ISO 13433	mm	42	40	37	34	30	28	24	21	20	19

Hydraulic Properties												
Permeability	EN ISO 11058	m/s	125×10^{-3}	120×10^{-3}	115×10^{-3}	110×10^{-3}	108×10^{-3}	106×10^{-3}	105×10^{-3}	100×10^{-3}	90×10^{-3}	85×10^{-3}
Waterflow normal to the plane	EN ISO 11058	l/m ² .s	125	120	115	110	108	106	105	100	90	85
Waterflow in the plane-20kPa	EN ISO 12958	m ² /s	1×10^{-7}	1×10^{-7}	1×10^{-7}	1×10^{-7}	2×10^{-7}	2×10^{-7}	2×10^{-7}	3×10^{-7}	3×10^{-7}	1×10^{-6}
Characteristic Opening Size	EN ISO 12956	µm	145	140	135	120	115	110	105	100	90	85

Physical Properties												
Thickness under 2 kPa	EN ISO 9883-1	mm	0,75	0,85	0,90	1,00	1,10	1,15	1,40	1,45	1,20	1,25
Weight	EN ISO 9884	g/m ²	70	80	85	100	110	120	145	160	180	200
Roll width		cm	525	525	525	525	525	525	525	525	525	525
Roll length		m	100	100	100	100	100	100	100	100	100	100
Full truck load volume (+/- 10%)		m ²	105 000	94 500	86 625	70 875	68 250	65 625	47 250	45 675	47 250	43 050
Roll diameter (+/- 10%)		cm	27	28	29	30	31	33	36	37	36	37

Durability		
Natural UV light	ASTM 4533	100%
Chemical Resistance	EN 14030	100%
Oxidation Resistance	EN ISO 13438	>90%
Microbiological Resistance	EN 12225	100%
Hydrolysis	EN 12447	100%

Product Description	
Polymer	100% Polypropylene
Density	0,91 kg/dm ³
Melting Point	165°C
Fiber bonding	Mechanical/Thermal

Specialists in Geosynthetics & Erosion Control



Verdant Solutions
In harmony with the environment

Verdatex NW18 - NW45 Geotextile Specification Sheet

Thermally Bonded Non Woven Geotextile

Mechanical Properties	Test	Units	NW18	NW20	NW21	NW25	NW26	NW32	NW40	NW 45
Tensile Strength - MD	EN ISO 10319	kN/m	18,0	20,0	21,0	25,0	26,0	32,0	40,0	45,0
Tensile Strength - XD	EN ISO 10319	kN/m	18,0	20,0	21,0	25,0	26,0	32,0	40,0	45,0
Elongation at break - MD	EN ISO 10319	%	45,0	50,0	50,0	50,0	50,0	50,0	55,0	65,0
Elongation at break - XD	EN ISO 10319	%	50,0	50,0	50,0	50,0	50,0	50,0	55,0	65,0
CBR Puncture Resistance	EN ISO 12238	N	3 000	3 100	3 500	3 600	4 350	5 400	6 500	7 800
Dynamic Cone Drop	EN ISO 13433	mm	17	16	15	12	11	10	6	4
Pyramid Puncture	EN ISO 14574	N				300	352	385	617	700

Hydraulic Properties										
Permeability	EN ISO 11058	m/s	70×10^{-3}	65×10^{-3}	60×10^{-3}	55×10^{-3}	45×10^{-3}	40×10^{-3}	30×10^{-3}	25×10^{-3}
Waterflow normal to the plane	EN ISO 11058	l/m ² .s	70	65	60	55	45	40	30	25
Waterflow in the plane-20kPa	EN ISO 12958	m ² /s	3×10^{-6}	3.5×10^{-6}	4×10^{-6}	4×10^{-6}	4×10^{-6}	4×10^{-6}	4×10^{-6}	4.5×10^{-6}
Characteristic Opening Size	EN ISO 12958	µm	75,0	70,0	65,0	65,0	65,0	65,0	65,0	65,0

Physical Properties										
Thickness under 2 kPa	EN ISO 9863-1	mm	1,30	1,40	1,50	1,60	1,80	1,90	2,50	2,96
Weight	EN ISO 9864	g/m ²	215	235	260	300	325	385	500	625
Roll width		cm	525	525	525	525	525	525,0	525	525
Roll length		m	100	100	100	100	100	100,0	100	100
Full truck load volume (+/- 10%)		m ²	43 050	35 175	30 450	30 450	28 875	22 050	15 750	12 600
Full 40ft HC container volume (+/- 10%)		m ²								
Roll diameter (+/- 10%)		cm	38	42	44	46	48	53	62	66

Durability		
Natural UV light	ASTM 4533	100%
Chemical Resistance	EN 14030	100%
Oxidation Resistance	EN ISO 13438	>90%
Microbiological Resistance	EN 12225	100%
Hydrolysis	EN 12447	100%

Product Description	
Polymer	100% Polypropyleen
Denisty	0,91 kg/dm ³
Melting Point	165°C
Fiber bonding	Mechanical/Thermal

Specialists in Geosynthetics & Erosion Control

High Street, Hartfield, East Sussex TN7 4AE
Tel: 01892 770470 Fax: 01892 770760

Email: office@verdantsolutions.ltd.uk
www.verdantsolutions.ltd.uk

