



# Verdatex GTPP Woven Polypropylene Geotextiles



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Mechanical Properties	Test	Units	14/14	18/12	18/18	21/22	25/25	30/30	35/35	40/40	50/50	60/60	70/70	80/80
Tensile strength - MD	EN ISO 10319	kN/m	17	19	21	22	30	35	40	45	55	65	80	90
Tensile strength - CMD	EN ISO 10319	kN/m	16	13	21	23	30	35	40	45	55	65	80	90
Elongation at break - MD	EN ISO 10319	%	17	17	17	17	16	15	16	16	12	12	13	12
Elongation at break - CMD	EN ISO 10319	%	10	13	10	8	8	8	8	8	8	8	8	9
Tensile strength at 2% strain - MD	EN ISO 10319	kN/m	2.5	3	3	3.5	4	4	4.5	4.5	11	12	15	12
Tensile strength at 2% strain - CMD	EN ISO 10319	kN/m	2.5	2	4	6	7	12	12	13	16	18	20	19
Tensile strength at 5% strain - MD	EN ISO 10319	kN/m	7	8	8	9	11	12	15	17	27	31	40	39
Tensile strength at 5% strain - CMD	EN ISO 10319	kN/m	7	5	10	15	18	26	28	29	38	45	50	53
Static puncture resistance (CBR)	EN ISO 12236	kN	2	2	2.3	2.5	3	4	5	5	6	8	9	12
Dynamic perforation resistance (cone drop)	EN ISO 13433	mm	18	20	16	14	14	12	8	8	9	8	7	9
<b>Hydraulic Properties</b>														
Water permeability normal to the plane	EN ISO 11058	m/s	0.02	0.02	0.02	0.05	0.02	0.02	0.01	0.01	0.02	0.02	0.02	0.01
Characteristic opening size (O90)	EN ISO 12956	mm	0.2	0.3	0.25	0.3	0.3	0.4	0.2	0.2	0.3	0.25	0.3	0.2
<b>Physical Properties</b>														
Weight	EN ISO 9864	g/m <sup>2</sup>	79	67	82	108	127	144	172	194	250	280	330	390
Roll width		m	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
Roll length		m	100	100	100	100	100	100	100	100	100	100	100	100
Truck load volume (+/- 10%)		m <sup>2</sup>	149760	191360	137280	112320	112320	72800	68200	62400	44200	44200	44200	33800
Roll diameter (+/- 10%)		m	0.2	0.19	0.21	0.24	0.26	0.28	0.3	0.32	0.34	0.36	0.38	0.4
<b>Durability</b>														
Natural UV light	Polymer	100% polypropylene												
Chemical resistance	Density	0.91 kg/dm <sup>3</sup>												
Microbiological resistance	Melting point	165 °C												
Hydrolysis	Construction	Tapes												

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.

Specialists in Geosynthetics  
& Erosion Control

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

Email: [office@verdantsolutions.ltd.uk](mailto:office@verdantsolutions.ltd.uk)  
[www.verdantsolutions.ltd.uk](http://www.verdantsolutions.ltd.uk)





**Verdant Solutions**  
In harmony with the environment

# Verdatex GTPP Woven Polypropylene Geotextiles



<b>Mechanical Properties</b>	<b>Test</b>	<b>Units</b>	<b>80/30</b>	<b>100/100</b>	<b>120/120</b>	<b>150/50</b>	<b>150/100</b>	<b>200/50</b>	<b>200/100</b>	<b>250/50</b>	<b>270/60</b>	<b>320/50</b>
Tensile strength - MD	EN ISO 10319	kN/m	90	110	130	160	160	220	220	280	270	350
Tensile strength - CMD	EN ISO 10319	kN/m	35	110	130	55	110	55	110	55	65	55
Elongation at break - MD	EN ISO 10319	%	12	11	9	12	12	12	12	11	9	12
Elongation at break - CMD	EN ISO 10319	%	8	9	8	8	9	8	9	8	12	11
Tensile strength at 2% strain - MD	EN ISO 10319	kN/m	12	17	19	20	20	27	27	30	30	35
Tensile strength at 2% strain - CMD	EN ISO 10319	kN/m	10	23	35	17	23	17	23	17	8	6
Tensile strength at 5% strain - MD	EN ISO 10319	kN/m	39	58	65	72	72	100	100	120	120	125
Tensile strength at 5% strain - CMD	EN ISO 10319	kN/m	22	61	80	40	61	40	61	50	30	28
Static puncture resistance (CBR)	EN ISO 12236	kN	8	14	17	9	16	11	18	14	15	18
Dynamic perforation resistance (cone drop)	EN ISO 13433	mm	10	7	5	8	5	7	4	10	10	8
<b>Hydraulic Properties</b>												
Water permeability normal to the plane	EN ISO 11058	m/s	0.02	0.03	0.04	0.1	0.05	0.12	0.11	0.1	0.07	0.09
Characteristic opening size (O90)	EN ISO 12956	mm	0.3	0.2	0.4	1.52	0.50	0.85	0.5	0.8	1.7	0.65
<b>Physical Properties</b>												
Weight	EN ISO 9864	g/m <sup>2</sup>	280	484	565	605	690	680	825	805	810	990
Roll width		m	5.2	5.2	5.2	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Roll length		m	100	100	100	100	100	100	100	100	100	100
Truck load volume (+/- 10%)		m <sup>2</sup>	44200	26000	17100	17100			11700		11440	9900
Roll diameter (+/- 10%)		m	0.36	0.44	0.5	0.52	0.52	0.54	0.55	0.55	0.55	0.65
<b>Durability</b>												
Natural UV light	Polymer	100% polypropylene										
Chemical resistance	Density	0.91 kg/dm <sup>3</sup>										
Microbiological resistance	Melting point	165 °C										
Hydrolysis	Construction	Tapes										
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