



Verdant Solutions
In harmony with the environment

Verdatex GT High Strength Woven Polyester Geotextiles



Mechanical Properties	Test	Units	60/60	80/80	100/50	100/100	120/120	150/50	150/150	200/50	200/100	200/200	250/10	250/50
Tensile strength - MD	EN ISO 10319	kN/m	70	90	110	110	130	160	160	220	220	220	280	280
Tensile strength - CMD	EN ISO 10319	kN/m	70	90	55	110	130	55	160	55	110	220	15	55
Elongation at break - MD	EN ISO 10319	%	10	10	10	10	10	10	10	10	11	10	10	10
Elongation at break - CMD	EN ISO 10319	%	10	10	10	10	10	10	10	10	11	10	10	10
Tensile strength at 2% strain - MD	EN ISO 10319	kN/m	12	15	22	22	23	24	24	34	34	34	40	40
Tensile strength at 2% strain - CMD	EN ISO 10319	kN/m	12	15	9	18	19	9	19	9	19	34	2.5	9
Tensile strength at 5% strain - MD	EN ISO 10319	kN/m	30	40	47	43	46	60	60	80	80	80	100	100
Tensile strength at 5% strain - CMD	EN ISO 10319	kN/m	18	40	22	43	46	22	48	22	48	80	7	22
Static puncture resistance (CBR)	EN ISO 12236	kN	5	7	6	8	9	7	13	9	11	14	5	9
Dynamic perforation resistance (cone drop)	EN ISO 13433	mm	18	15	18	12	12	16	12	13	10	12	18	11
Hydraulic Properties														
Water permeability normal to the plane	EN ISO 11058	m/s	0.03	0.05	0.05	0.03	0.04	0.04	0.02	0.04	0.02	0.03	0.02	0.02
Characteristic opening size (O90)	EN ISO 12956	mm	0.3	0.3	0.6	0.32	0.4	0.7	0.2	0.44	0.4	0.6	0.4	0.3
Physical Properties														
Weight	EN ISO 9864	g/m ²	208	250	260	325	385	320	505	400	510	680	451	470
Roll width		m	4.5 / 5.2	4.5 / 5.2	4.5 / 5.2	4.5 / 5.2	4.5 / 5.2	4.5 / 5.2	4.5 / 5.2	4.5 / 5.2	4.5 / 5.2	4.5 / 5.2	4.5 / 5.2	4.5 / 5.2
Roll length		m	100	100	100	100	100	100	100	100	100	100	100	100
Truck load volume (+/- 10%)		m ²		67600	67600	62400	52000	52000	46800	52000		31200		
Roll diameter (+/- 10%)		m	0.25	0.26	0.27	0.3	0.3	0.3	0.34	0.33	0.34	0.37	0.34	0.34
Durability														
Natural UV light	Polymer		100% polyester											
Chemical resistance	Density		1.38 kg/dm ³											
Microbiological resistance	Melting point		250 °C											
Hydrolysis	Construction		Multifilament											

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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Mechanical Properties	Test	Units	250/250	300/50	300/100	300/300	400/50	400/100	500/50	500/100	500/200	600/50	600/100	600/200
Tensile strength - MD	EN ISO 10319	kN/m	280	330	330	330	440	440	550	550	550	660	660	660
Tensile strength - CMD	EN ISO 10319	kN/m	280	55	110	330	55	110	55	110	220	55	110	220
Elongation at break - MD	EN ISO 10319	%	10	10	10	11	10	10	10	10	10	10	10	10
Elongation at break - CMD	EN ISO 10319	%	10	10	10	10	10	10	10	10	10	10	10	10
Tensile strength at 2% strain - MD	EN ISO 10319	kN/m	40	45	45	45	75	75	80	80	80	90	90	90
Tensile strength at 2% strain - CMD	EN ISO 10319	kN/m	40	9	18	45	9	18	8	18	34	9	18	34
Tensile strength at 5% strain - MD	EN ISO 10319	kN/m	100	110	110	110	160	160	180	180	180	200	200	200
Tensile strength at 5% strain - CMD	EN ISO 10319	kN/m	100	22	43	110	22	53	22	43	80	22	43	80
Static puncture resistance (CBR)	EN ISO 12236	kN	14	10	12	27	11	13	11	14	14	12	15	15
Dynamic perforation resistance (cone drop)	EN ISO 13433	mm	11	10	9	8	10	8	10	8	8	7	6	6

Hydraulic Properties	Test	Units	250/250	300/50	300/100	300/300	400/50	400/100	500/50	500/100	500/200	600/50	600/100	600/200
Water permeability normal to the plane	EN ISO 11058	m/s	0.02	0.01	0.005	0.02	0.004	0.007	0.005	0.005	0.005	0.005	0.005	0.005
Characteristic opening size (O90)	EN ISO 12956	mm	0.6	0.2	0.2	0.25	0.14	0.13	0.14	0.15	0.12	0.13	0.12	0.1

Physical Properties	Test	Units	250/250	300/50	300/100	300/300	400/50	400/100	500/50	500/100	500/200	600/50	600/100	600/200
Weight	EN ISO 9864	g/m ²	840	545	680	1150	730	830	970	1110	1210	1115	1210	1350
Roll width		m	4.5 / 5.2	4.5 / 5.2	4.5 / 5.2	4.5 / 5.2	4.5 / 5.2	4.5 / 5.2	4.5 / 5.2	4.5 / 5.2	4.5 / 5.2	4.5 / 5.2	4.5 / 5.2	4.5 / 5.2
Roll length		m	100	100	100	100	100	100	100	100	100	100	100	100
Truck load volume (+/- 10%)		m ²		34320			31200	31200	21840			20800		
Roll diameter (+/- 10%)		m	0.45	0.33	0.35	0.52	0.4	0.43	0.45	0.45	0.5	0.5	0.5	0.55

Durability	Description	Value	Notes
Natural UV light	Polymer	100% polyester	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.
Chemical resistance	Density	1.38 kg/dm ³	
Microbiological resistance	Melting point	250 °C	
Hydrolysis	Construction	Multifilament	

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