Product Data Sheet

Fibertex Geotextiles

Sheet no 400.65
Date January-23

Fibertex Geotextiles			F-10	F-20	F-22	F-22 2.0	F-25	F-31	F-32	F-35	F-38	F-46	F-40	F-50	F-56
Physical Properties															
Weight	EN ISO 9864	g/m²	80	100	110	120	130	150	175	200	230	255	260	300	350
Thickness at 2 kPa	EN ISO 9863-1	mm	0,5	0,5	0,6	0,7	0,7	0,8	0,8	1,0	1,2	1,2	1,2	1,6	1,8
Mechanical Properties															
Static puncture (CBR-test)	EN ISO 12236	N	950	1100	1500	1500	1800	2100	2600	3000	3400	3700	3800	4500	5000
Tensile strength long. dir.	EN ISO 10319	kN/m	5,9	7	8	10,0	11	12	15	17	20	22	21	25	30
Tensile strength trans. dir.	EN ISO 10319	kN/m	5,4	7	8	10,0	11	12	15	17	20	25	22	25	30
Elongation at break long. dir.	EN ISO 10319	%	40	40	40	35	40	40	40	50	50	50	40	50	55
Elongation at break trans. dir.	EN ISO 10319	%	50	50	55	45	50	50	50	60	60	56	50	60	65
Dynamic Cone drop	EN ISO 13433	mm	>40	35	32	30	32	26	24	20	17	17	20	15	11
Protection efficiency at 300 kPa	EN 13719	%	-	2,6	2,5	2,5	2,4	2,5	2,3	2,5	2,3	2,4	2,1	2	2,2
Pyramid puncture resistance	EN 14574	N	-	70	80	80	110	200	160	250	290	300	220	270	450
Hydraulic Properties															
Permeability at 50 mm WH	EN ISO 11058	m/sec	0,10	0,09	0,07	0,08	0,07	0,05	0,04	0,04	0,04	0,03	0,04	0,03	0,01
Permittivity at 50 mm WH	EN ISO 11058	sec^{-1}	2,0	1,8	1,4	1,6	1,4	1,0	0,8	0,8	0,8	0,6	0,8	0,6	0,2
Water flow at 50 mm WH	EN ISO 11058	l/sec/m²	100	90	70	80	70	50	40	40	40	30	40	30	10
Velocity index at 100 mm WH	EN ISO 11058	m/sec	0,16	0,14	0,12	0,13	0,12	0,08	0,07	0,07	0,06	0,05	0,07	0,05	0,05
Water flow at 100 mm WH	EN ISO 11058	l/sec/m²	160	140	120	130	120	80	70	70	60	50	70	50	50
Transmissivity	EN ISO 12958	10^{-6} m²/sec	0,1	0,3	0,3	0,6	0,6	0,4	0,8	1,1	1,5	1,1	1,0	1,5	2,7
Water flow capacity	EN ISO 12958	l/hour/m	0,5	1,0	1,0	2,0	2,0	1,4	2,7	4,0	5,4	4,0	4,0	5,0	5,0
Pore size, $O_{90\%}$	EN ISO 12956	micron	100	100	85	90	70	75	85	70	65	70	70	65	65
Standard Dimensions															
Width		m	2 / 4 / 5	2 / 4 / 5	2 / 4 / 5	1 / 2 / 4 / 5	2 / 4 / 5	2 / 4 / 5	4 / 5	4 / 5	4 / 5	4 / 5	2 / 4 / 5	4 / 5	5
Length		m	100	100	100	50 / 100	100	100	100	100	100	100	100	100	100
Roll diameter		cm	26	26	28	28	28	32	33	35	35	35	36	42	36
Roll weight at maximum standard dimension		kg	40	50	55	60	65	75	88	100	115	128	130	150	175
Carbon Footprint	EN 15804+A2	kg CO_2eq/m²	0,23	0,29	0,32	0,35	0,37	0,43	0,50	0,58	0,66	0,73	0,75	0,86	1,01

Above technical values are mean values based on measurements in current production and test results from independent test institutes.

Fibertex reserve the right to make changes without notice. Contact fibertex@fibertex.com for latest version.

Fibertex Geotextiles

Fibertex Geotextiles are used in building and construction works for separation, filtration, drainage, protection, stabilization and reinforcement.
Fibertex Geotextiles are made of virgin polypropylene fibres added HALS UV stabilizer according to EN 12224.
The basic strength of Fibertex Geotextiles is obtained by needle-punching the PP-fibres, which gives strong elastic bonding between the fibres.
Due to the unique production process all Fibertex Geotextiles are added a thermal treatment unless marked with:
M: Needlepunched only

Quality Management

Fibertex production control is certified CE-marking level 2+ for all geotextiles.

CE
1071-CPR-1846

Fibertex Nonwovens A/S is certified according to the international quality management system EN ISO 9001 as well as the environmental management system EN ISO 14001.

Specifications for Tender

The geotextile should be Fibertex type ....or comparable type.
The material should be needlepunched PP with a CBR puncture resistance of ....N, acc. to EN ISO 12236 and a Wide-width tensile elongation of .....% acc. EN ISO 10319.
Water permeability should be .... l/sec/m² acc. to EN ISO 11058 and Pore size d90% ....micron acc. EN ISO 12956. The geotextile supplier must be certified acc. to ISO 9001 and ISO 14001, and the products must be CE-marked.

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Fibertex Geotextiles			F-200M	F-250Ms	F-300M	F-400M	F-500M	F-600M	F-800M	F-1000M	F-1200M
Physical Properties											
Weight	EN ISO 9864	g/m²	200	250	300	400	500	600	800	1000	1200
Thickness at 2 kPa	EN ISO 9863-1	mm	2,0	2,2	2,5	3,2	3,5	4,5	6,0	7,0	7
Mechanical Properties											
Static puncture (CBR-test)	EN ISO 12236	N	2700	3400	3900	5200	6500	8100	10800	13000	15600
Tensile strength long. dir.	EN ISO 10319	kN/m	16,5	21	25	30	38	45	55	60	65
Tensile strength trans. dir.	EN ISO 10319	kN/m	16,5	21	25	36	45	55,0	77	100	100
Elongation at break long. dir.	EN ISO 10319	%	50	50	60	65	75	65	65	75	80
Elongation at break trans. dir.	EN ISO 10319	%	65	65	70	60	75	65	60	60	55
Dynamic Cone drop	EN ISO 13433	mm	18	18	16	10	8	5	2	0	0
Protection efficiency at 300 kPa	EN 13719	%	2,5	2,1	2	1,9	1,7	1,6	1,3	1	0,7
Pyramid puncture resistance	EN 14574	N	200	250	300	450	550	850	1100	1500	2200
Hydraulic Properties											
Permeability at 50 mm WH	EN ISO 11058	m/sec	0,08	0,07	0,05	0,05	0,03	0,025	0,02	0,02	0,015
Permittivity at 50 mm WH	EN ISO 11058	sec^{-1}	1,6	1,4	1	1	0,6	0,5	0,4	0,4	0,3
Water flow at 50 mm WH	EN ISO 11058	l/sec/m²	80	70	50	50	30	25	20	20	15
Velocity index at 100 mm WH	EN ISO 11058	m/sec	0,13	0,11	0,07	0,07	0,06	0,05	0,032	0,032	0,024
Water flow at 100 mm WH	EN ISO 11058	l/sec/m²	130	110	70	70	60	50	32	32	24
Transmissivity	EN ISO 12958	10^{-6} m^2/sec	4	3	4	5	6	7	10	12	11
Water flow capacity	EN ISO 12958	l/hour/m	13	12	15	20	21	26	36	41	43
Pore size, $O_{90\%}$	EN ISO 12956	micron	100	90	70	80	65	63	63	63	60
Standard Dimensions											
Width		m	5 / 6	5 / 6	5 / 6	5 / 6	5 / 6	5,5	5 / 6	5 / 6	5 / 6
Length		m	100	100	100	100	100	100	50	50	50
Roll diameter		cm	60	60	60	68	66	60	60	65	72
Roll weight at maximum standard dimension		kg	120	150	180	240	300	330	240	300	360
Carbon Footprint	EN 15804+A2	kg CO_2eq/m^2	0,58	0,72	0,86	1,15	1,44	1,73	2,30	2,88	3,46

Above technical values are mean values based on measurements in current production and test results from independent test institutes.

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Fibertex Paving Fabric			AM-2
Weight	EN ISO 9864	g/m²	145
Thickness at 2 kPa	EN ISO 9863-1	mm	1,05
Static puncture (CBR-test)	EN ISO 12236	N	1500
Tensile strength	EN ISO 10319	kN/m	8
Elongation at break	EN ISO 10319	%	55/55
Dynamic Cone drop	EN ISO 13433	mm	25
Bitumen retention	EN 15381	kg/m^2	1,3
Dimensions	Width	m	3,75/5,0
	Length	m	100
	Roll diameter	cm	35
Carbon Footprint	EN 15804+A2	kg CO_2eq/m^2	0,42