Product Data Sheet

Fibertex Geotextiles

400.56
Date 01/2018

Fibertex Geotextiles			F-10	F-20	F-22	F-25	F-31	F-32	F-33	F-46	F-55	F-59
Physical Properties												
Weight	EN ISO 9864	g/m²	80	100	120	130	150	175	200	250	315	370
Thickness at 2 kPa	EN ISO 9863-1	mm	0,5	0,5	0,7	0,8	0,8	0,9	0,9	1,2	1,6	1,6
Mechanical Properties												
Static puncture (CBR-test)	EN ISO 12236	N	800	1100	1500	1600	1800	2000	2500	3400	4000	5100
Tensile strength long. dir.	EN ISO 10319	kN/m	4,6	6,8	8,1	10	12	13	16	20	25	30
Tensile strength trans. dir.	EN ISO 10319	kN/m	4,6	6,6	8,1	10	12	13	16	20	25	30
Elongation at break long. dir.	EN ISO 10319	%	40	35	40	45	38	45	43	50	50	50
Elongation at break trans. dir.	EN ISO 10319	%	50	45	55	55	50	50	50	50	55	55
Dynamic Cone drop	EN ISO 13433	mm	>40	35	32	32	26	24	22	17	13	10
Protection efficiency at 300 kPa	EN 13719	%	-	2,6	2,5	2,4	2,3	2,3	2,2	2,2	2,1	2,0
Pyramid puncture resistance	EN 14574	N	-	70	80	110	140	160	200	250	310	400
Hydraulic Properties												
Permeability at 50 mm WH	EN ISO 11058	m/sec	0,1	0,09	0,07	0,07	0,05	0,04	0,03	0,04	0,03	0,02
Permittivity at 50 mm WH	EN ISO 11058	sec^{-1}	2,0	1,8	1,4	1,4	1,0	0,8	0,6	0,8	0,6	0,4
Water flow at 50 mm WH	EN ISO 11058	l/sec/m²	100	90	70	70	50	40	30	40	30	20
Velocity index at 100 mm WH	EN ISO 11058	m/sec	0,16	0,14	0,12	0,12	0,08	0,07	0,06	0,06	0,05	0,03
Water flow at 100 mm WH	EN ISO 11058	l/sec/m²	160	140	120	120	80	70	60	60	50	30
Transmissivity	EN ISO 12958	10^{-6} m²/sec	0,1	0,3	0,3	0,6	0,5	0,8	0,7	1,1	1,5	1,6
Water flow capacity	EN ISO 12958	l/hour/m	0,5	1,0	1,0	2,0	2,0	2,7	2,5	4,0	5,0	6,0
Pore size, $O_{90\%}$	EN ISO 12956	micron	100	100	85	70	75	85	75	65	70	70
Standard Dimensions												
Width		m	4/5	4/5	4/5	4/5	4/5	4/5	4/5	5	5	5
Length		m	100	100	100	100	100	100	100	100	100	100
Roll diameter		cm	25	26	28	30	32	32	34	36	43	45
Roll weight at maximum standard dimension		kg	45	55	65	70	80	95	110	130	165	190

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-300M	F-400M	F-500M	F-600M	F-650M	F-800M	F-1000M	F-1200M
Physical Properties											
Weight	EN ISO 9864	g/m²	200	300	400	500	600	650	800	1000	1200
Thickness at 2 kPa	EN ISO 9863-1	mm	2	3	3,7	4	4,5	5	6	7	8
Mechanical Properties											
Static puncture (CBR-test)	EN ISO 12236	N	2000	3890	4600	5700	6700	7500	9500	11500	14000
Tensile strength long. dir.	EN ISO 10319	kN/m	12	20	26	32	40	45	50	55	65
Tensile strength trans. dir.	EN ISO 10319	kN/m	12	20	34	40	45	50	65	85	100
Elongation at break long. dir.	EN ISO 10319	%	65	65	70	70	75	75	80	90	85
Elongation at break trans. dir.	EN ISO 10319	%	80	65	70	70	80	90	80	70	65
Dynamic Cone drop	EN ISO 13433	mm	20	16	10	8	5	4	0	0	0
Protection efficiency at 300 kPa	EN 13719	%	2,4	2,3	1,8	1,7	1,6	1,5	1,2	0,8	0,4
Pyramid puncture resistance	EN 14574	N	170	260	400	520	650	700	900	1200	1500
Hydraulic Properties											
Permeability at 50 mm WH	EN ISO 11058	m/sec	0,08	0,05	0,05	0,03	0,03	0,03	0,03	0,02	0,015
Permittivity at 50 mm WH	EN ISO 11058	sec^{-1}	1,6	1	1	0,6	0,6	0,6	0,6	0,4	0,3
Water flow at 50 mm WH	EN ISO 11058	l/sec/m²	80	50	50	30	30	30	30	20	15
Velocity index at 100 mm WH	EN ISO 11058	m/sec	0,13	0,07	0,07	0,06	0,05	0,05	0,048	0,032	0,024
Water flow at 100 mm WH	EN ISO 11058	l/sec/m²	130	70	70	60	50	50	48	32	24
Transmissivity	EN ISO 12958	10^{-6} m^2/sec	3,5	4	3	4,3	6	5,7	10	10	12
Water flow capacity	EN ISO 12958	l/hour/m	12,6	15	12	15	20	20	36	36	43
Pore size, $O_{90\%}$	EN ISO 12956	micron	100	70	80	65	70	70	80	70	60
Standard Dimensions											
Width		m	4/5	4/5	5	5	5,5	5,5	5,5	5,5	5,5
Length		m	100	100	100	100	100	50	50	50	50
Roll diameter		cm	48	60	60	72	73	56	58	69	72
Roll weight at maximum standard dimension		kg	105	155	205	255	335	185	225	280	335

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Fibertex Paving Fabric			AM-2
Weight	EN ISO 9864	g/m²	150
Thickness at 2 kPa	EN ISO 9863-1	mm	1,2
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