

Fibertex Geotextiles

Sheet No: FSA483.9 EN ISO
Date: 08/2012

Product Data Sheet

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Polypropylene Needleponched Geotextiles

Fibertex Geotextiles	Test method	unit	F-22 SA	F-25 SA	F-30 SA	F-32 SA	F-34 SA	F-46 SA	F-50 SA	F-55 SA
Physical Properties										
Mass	EN ISO 9864	g/m ²	120	130	150	175	200	275	310	340
Thickness at 2 kPa	EN ISO 9863-1	mm	0.7	0.7	0.7	0.9	0.9	1.2	1.6	1.8
Mechanical Properties										
Static puncture (CBR test)	EN ISO 12236	N	1 500	1700	1900	2100	2600	3600	3900	4500
Elongation		%	>45	>45	>45	>45	>45	>45	>50	>50
Tensile strength (longitudinal direction)	EN ISO 10319	kN/m	8.0	10.0	11.0	12.0	15.0	21.0	23.0	26.0
Tensile strength (transverse direction)		kN/m	8.0	10.0	11.0	12.0	15.0	21.0	23.0	26.0
Elongation at break		%	40-65	40-65	40-65	40-65	40-65	40-65	40-65	40-65
Dynamic cone drop	EN ISO 13433	mm	30	26	25	20	18	12	12	11
Hydraulic Properties										
Permeability (at 50 mm WH)	EN ISO 11058	m/sec	0.07	0.07	0.05	0.04	0.03	0.03	0.03	0.03
Permittivity (at 50 mm WH)		sec ⁻¹	1.4	1.4	1.0	0.8	0.6	0.6	0.6	0.6
Water flow rate (at 50 mm WH)		ℓ/s/m ²	70	70	50	40	30	30	30	30
Velocity index (at 100 mm WH)		m/sec	0.12	0.12	0.08	0.07	0.06	0.05	0.05	0.05
Water flow (at 100 mm WH)		ℓ/s/m ²	120	120	80	70	60	50	50	50
Pore size (O ₉₀ %)	EN ISO 12956	micron	85	85	85	85	75	75	75	75
Standard Dimensions										
Width (maximum)		m	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
Length		m	150	150	150	150	150	100	100	100
Roll diameter		cm	28	30	35	38	40	40	42	44
Roll mass at maximum standard dimension		kg	94	101	117	137	156	143	161	177

An **M** in the Fibertex product code indicates it is needleponched only, and has not undergone thermal treatment.

The above technical values are mean values and are indicative.

Fibertex reserves the right to make technical modifications to its products without notice.

Fibertex geotextiles are used in building and construction works for separation, filtration, drainage, protection and reinforcement.

Fibertex geotextiles are manufactured from virgin polypropylene fibres with an added UV stabiliser.

The basic strength of Fibertex Geotextiles is obtained by needlepunching the polypropylene fibres, which provides strong elastic bonding.

Fibertex is highly durable and resistant to all natural occurring soil alkalis and acids.

Fibertex geotextiles are manufactured to ISO 9001 2008 quality management procedures.

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Polypropylene Needleponched Geotextile

Fibertex Geotextiles	Test method	unit	F-300M SA	F-400M SA	F-500M SA	F-550M SA	F-650M SA	F-750M SA	F-1000M SA	F-1200M SA
Physical Properties										
Mass	EN ISO 9864	g / m ²	300	400	500	550	650	750	1 000	1 200
Thickness at 2 kPa	EN ISO 9863-1	mm	3.0	3.4	3.6	4.1	5.0	5.5	6.5	7.0
Mechanical Properties										
Static puncture (CBR test)	EN ISO 12236	N	3900	4 500	6500	7100	7 500	8800	12500	14 000
Elongation		%	>60	>60	>60	>60	>60	>60	>60	>60
Tensile strength (longitudinal direction)	EN ISO 10319	kN / m	20	25	30	40	45	55	70	75
Tensile strength (transverse direction)		kN / m	20	28	38	40	50	60	70	90
Elongation at break		%	>50	>50	>50	>50	>50	>50	>50	>50
Dynamic cone drop	EN ISO 13433	mm	16	8	4	3	3	1	0	0
Hydraulic Properties										
Permeability (at 50 mm WH)	EN ISO 11058	m / sec	0.05	0.05	0.04	0.03	0.03	0.03	0.02	0.015
Permittivity (at 50 mm WH)		sec ⁻¹	1.0	1.0	0.8	0.6	0.6	0.5	0.4	0.3
Water flow rate (at 50 mm WH)		ℓ / s / m ²	50	50	45	30	30	25	20	15
Velocity index (at 100 mm WH)		m / sec	0.07	0.07	0.06	0.05	0.05	0.04	0.03	0.02
Water flow (at 100 mm WH)		ℓ / s / m ²	70	70	60	50	50	40	35	25
Pore size (O ₉₀ %)	EN ISO 12956	micron	70	80	70	70	70	70	70	60
Standard Dimensions										
Width (maximum)		m	5.2	5.2	5.2	5.2	5.2	5.2	5.2	5.2
Length		m	100	100	50	50	50	50	50	50
Roll diameter		cm	60	60	48	50	52	58	61	72
Roll mass at maximum standard dimension		kg	156	208	130	143	169	195	260	312

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