

Fibertex Geotextiles



PRODUCT OVERVIEW

Fibertex geotextiles are used in building and construction works for separation, filtration, drainage, protection, stabilisation and reinforcement. Fibertex geotextiles are manufactured from virgin polypropylene fibres with added UV stabiliser. The basic strength of the Fibertex geotextiles is obtained by needle- punching the PP- fibres, which provides strong elastic bonding between fibres.

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

Due to the unique production process, all Fibertex Geotextiles are added a thermal treatment unless marked with:

M: Needlepunched only

SPECIFICATIONS

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			F-22 SA	F-25 SA	F-32 SA	F-34 SA	F-46 SA	F-50 SA	F-55 SA		
DURABILITY PROPERTIES											
UV			To be covered within 1 month after installation.							EN ISO 12224: 2000/ SANS 12224:2013	
UV Stability			Min 70% retained strength after 500 hrs							ASTM D7238	
Durability			Predicted to be durable for a service life of 100 years in natural soils with $4 \leq \text{pH} \leq 9$ and soil temperatures $\leq 25^\circ\text{C}$ on the basis of the results of test method EN ISO 13438 procedure A.							EN ISO 13348: 2004	
PHYSICAL PROPERTIES											
Thickness	At 2 kPa	mm	0.7	0.7	0.9	1.0	1.2	1.6	1.8	EN ISO 9863:2016/ SANS 9863:2013	
MECHANICAL PROPERTIES											
Static Puncture Strength	CBR Test	N	1 500	1 700	2 100	2 600	3 600	3 900	4 500	EN ISO 12236:2006/ SANS 12236:2013	
Elongation at break		%	>45							EN ISO 12236:2006/ SANS 12236:2013	
Tensile Strength	MD/CMD	kN/m	8/8	10/10	12/12	15/15	21/21	23/23	26/26	EN ISO 10319:2008/ SANS 1525:2013	
Elongation at Break		%	40-65	40-65	40-65	40-65	40-75	40-75	40-75	EN ISO 1319:2008/ SANS 1525:2013	
Dynamic Cone Drop		mm	28	25	20	17	12	11		EN ISO 12236:2006/ SANS 12236:2013	
HYDRAULIC PROPERTIES											
Water Flow	50mm Water Head	l/s/m ²	106	77	54	27	43	25		EN ISO 11058:2019/ SANS 11058:2013	
Permeability	50mm Water Head	m/s	0.10	0.07	0.05	0.03	0.04	0.02		EN ISO 11058:2019/ SANS 11058:2013	
Permittivity	50mm Water Head	sec ⁻¹	2.13	1.55	1.08	0.60	0.87	0.50		EN ISO 11058:2019/ SANS 11058:2013	
Pore Size	O _{90%}	micron	70							EN ISO 12956:2019/ SANS 12956:2013	
ROLL DIMENSIONS											
Widths	Maximum	m	5.2								
Length	Standard	m	150					100			

Fibertex geotextiles are manufactured to ISO 9001:2015 quality management procedures. Above technical values based on measurements in current production test results. Fibertex reserve the right to make changes without notice. Contact salesza@fibertex.com for latest version.

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	F-400M SA	F-500M SA	F-550M SA	F-750M SA	F-1000M SA	F-1200M SA	
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DURABILITY PROPERTIES

UV			To be covered within 1 month after installation.					EN ISO 12224: 2000/ SANS 12224:2013
UV Stability			Min 70% retained strength after 500 hrs					ASTM D7238
Durability			Predicted to be durable for a service life of 100 years in natural soils with $4 \leq \text{pH} \leq 9$ and soil temperatures $\leq 25^\circ\text{C}$ on the basis of the results of test method EN ISO 13438 procedure A.					EN ISO 13348: 2004

PHYSICAL PROPERTIES

Thickness	At 2 kPa	mm	3.4	4.2	4.4	5.5	6.5	7.0	EN ISO 9863:2016/ SANS 9863:2013
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MECHANICAL PROPERTIES

Static Puncture Strength	CBR Test	N	4 500	6 500	7 100	9 800	12 500	14 000	EN ISO 12236:2006/ SANS 12236:2013
Elongation at break		%	>55					EN ISO 1319:2008/ SANS 12236:2013	
Tensile Strength	MD/CMD	kN/m	25.0/28.0	30.0/38.0	40.0/40.0	55.0/60.0	70.0/70.0	75.0/75.0	EN ISO 10319:2008/ SANS 1525:2013
Elongation at Break		%	>50					EN ISO 1319:2008/ SANS 1525:2013	
Dynamic Cone Drop		mm	8	4	3	≤ 1	0	0	EN ISO 12236:2006/ SANS 13433:2013

HYDRAULIC PROPERTIES

Water Flow	50mm Water Head	l/s/m ²	42	38	25	23	16	15	EN ISO 11058:2019/ SANS 11058:2013
Permeability	50mm Water Head	m/s	0.04		0.02		0.01		EN ISO 11058:2010/ SANS 11058:2013
Permittivity	50mm Water Head	sec -1	0.85	0.76	0.50	0.47	0.32	0.29	EN ISO 11058:2019/ SANS 11058:2013
Pore Size	O _{90%}	micron	70					EN ISO 12956:2010/ SANS 12956:2013	

ROLL DIMENSIONS

Widths	Maximum	m	5.2					
Length	Standard	m	50					

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