

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

F-22 SA F-25 SA F-30 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	0.8	0.8	0.9	1.0	1.2	1.6	1.8	ASTM D-5199
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MECHANICAL PROPERTIES

Static Puncture Strength	CBR Test	N	1500	1 700	2000	2100	2 600	3 600	3 900	4 500	ASTM D-6241
Tensile Strength	MD/CMD	N	8/8	10/10	11/11	12/12	15/15	21/21	23/23	26/26	ASTM D-4595
Elongation at Break		%	40-65	40-65	40-65	40-65	40-65	40-75	40-75	40-75	ASTM D-4595
Trapezoidal Tear Strength	MD/CMD	N	150	190/160	180	190	250/250	350/320	400/330	450/400	ASTM D-4533
Grab Tensile Strength	MD/CMD	N	500	550/580	650	800	995/900	1000/1200	1400/1200	1500/1500	ASTM D-4632
Grab Tensile Elongation at break		%	>50	>45	>50	>50	>45	>45	>45	>45	ASTM D-4632

HYDRAULIC PROPERTIES

Water Flow	50mm Water Head	l/s/m ²	70	70	50	40	30	30	30	30	ASTM D-4491
Permeability	50mm Water Head	m/s	10	11	8	7	7	8	8	10	ASTM D-4491
Permittivity	50mm Water Head	sec ⁻¹	1.4	1.4	1.0	0.8	0.6	0.6	0.5	0.4	ASTM D-4491
Pore Size	O _{95%}	micron	100	100	100	<90	<90	<90	<90	<90	ASTM D-4751

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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SPECIFICATIONS

	F-400M SA	F-500M SA	F-550M SA	F-750M SA	F-1000M 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	3.5	4.2	4.2	5.7	7.0	ASTM D-5199
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MECHANICAL PROPERTIES

Static Puncture Strength	CBR Test	N	4 500	6500	7 100	9 800	12 500	ASTM D-6241
Tensile Strength	MD/CMD	kN/m	25.08/28.0	30.0/38.0	40.0/40.0	55.0/60.0	70.0/70.0	ASTM D-4595
Elongation at Break		%	>50	>50	>50	>50	>50	ASTM D-4595
Trapezoidal Tear Strength	MD/CMD	N	540/550	680	720/600	1000/1000	1200/1200	ASTM D-4533
Grab Tensile Strength	MD/CMD	N	1500/1500	1900	1800/1800	3000/3000	3500/3500	ASTM D-4632
Grab Tensile Elongation at break		%	>45	>50	>45	>45	>45	ASTM D-4632

HYDRAULIC PROPERTIES

Water Flow	50mm Water Head	l/s/m ²	50	45	40	25	18	ASTM D-4491
Permeability	50mm Water Head	m/s	40	27	30	30	26	ASTM D-4491
Permittivity	50mm Water Head	sec ⁻¹	1.0	0.8	0.7	0.6	0.4	AST D-4491M
Pore Size	O _{95%}	micron	<90	<90	<90	<90	<90	ASTM D-4751

ROLL DIMENSIONS

Widths	Maximum	m	5.2			
Length	Standard	m	50			

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