

X-Pruf GeoFab

UV resistant non woven polyester geotextile

Technical Specifications

Mechanical Properties	Test Method	Unit	GF 100	GF 120	GF 140	GF 150	GF 180	GF 200	GF 250	GF 280	GF 300	GF 350	GF 400	GF 500	GF 600
CBR Puncture strength	EN ISO 12236	N	1020	1230	1440	1560	1850	2100	2600	2900	3100	3600	4100	5100	6150
Dynamic puncture (cone drop test)	EN 918	mm	30	26	23	22	19	18	14	13	12	9	8	5	0
Mullen burst strength	ASTM D 3786	psi	135	165	185	200	300	310	370	400	450	550	650	750	900
Puncture strength	ASTM D 4833	N	175	210	250	265	350	440	550	600	650	780	900	1100	1300
Tensile strength (MD/CD)	EN 29073-3	N/5cm	180/210	250/300	300/400	310/410	400/640	440/700	550/850	650/1000	720/1100	840/1300	950/1600	1150/1850	1350/2200
Elongation (MD/CD)	EN 29073-3	%	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
Grab strength (MD/CD)	ASTM D 4632	N	190/220	260/310	310/410	320/420	420/660	500/700	580/900	700/1050	750/1150	870/1350	980/1650	1200/1900	1440/2200
Grab elongation (MD/CD)	ASTM D 4632	%	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70	>70
Trapezoid tear (MD/CD)	ASTM D 4533	N	100/110	120/130	140/150	150/160	180/240	200/300	250/400	280/450	300/500	350/550	400/650	500/850	660/1050
Hydraulic Properties	Test Method	Unit	GF 100	GF 120	GF 140	GF 150	GF 180	GF 200	GF 250	GF 280	GF 300	GF 350	GF 400	GF 500	GF 600
Water permeability "k"	ASTM D 4491	cm/s	0.35	0.35	0.35	0.33	0.33	0.32	0.28	0.27	0.27	0.27	0.26	0.26	0.26
Permeability	ASTM D 4491	s ⁻¹	2.5	2.1	1.8	1.6	1.4	1.25	1.0	0.9	0.85	0.75	0.65	0.52	0.45
Flow rate normal to the plane at 10cm head	BS 6906-3	l/m ² /s	250	210	180	160	140	125	100	90	85	75	65	52	45
Flow rate In-plane at 2kN/m ²	ASTM D 4716	l/m/h	120	140	160	165	180	190	210	225	240	270	300	375	400
Maximum pore size (O90)	EN ISO 12956	micron	140	140	120	106	85	80	80	75	75	75	75	75	75
Physical Properties	Test Method	Unit	GF 100	GF 120	GF 140	GF 150	GF 180	GF 200	GF 250	GF 280	GF 300	GF 350	GF 400	GF 500	GF 600
Thickness (2kN/m ²)	ASTM D 5199	mm	1.5	1.7	1.9	1.9	2.3	2.6	2.8	3.0	3.2	3.6	4.0	4.8	5.4
Fabric weight	ASTM D 5261	g/m ²	100	120	140	150	180	200	250	280	300	350	400	500	600
Roll Dimensions (WxL)		m	3x100	3x100	3x100	3x100	3x100	3x100	3x100	3x100	3x100	3x100	3x100	3x100	3x100

MD= Machine Direction, CD= Cross Machine Direction

The values reported in this specification sheet are average test results obtained in our laboratory and independent test institutes. Right is reserved to change the above without notice at any time.

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