

GeofanTex GFS Geotextile

Technical Data Sheet

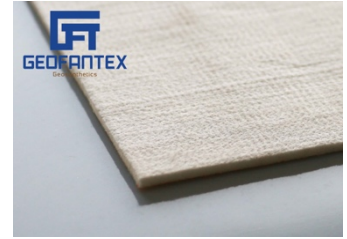
GeofanTex GFS in June 2019

GeofanTex GFS is 100% Polyester Staple Fiber Needle Punched non-woven Geotextile. The high-quality PET raw material offers the most cost-effective range of geotextiles bringing the maximum value to your project.

Manufactured from short fibres that are crimped, this range of geotextile offers excellent energy absorption characteristics as well as superior filtration performance. GeofanTex GFS is suitable in many applications, including the following:

- **Underside protection of geomembranes / GCLs in containment systems**
- **Filtration**
- **Drainage and Separation**

GeofanTex GFS is manufactured in widths of 6mts, thus reducing wastage by fewer overlaps and allows rapid, easy installation.



Mechanical Properties

(T: Typical value M: Minimum average roll value)

Properties (Standard)	Unit	GFS 100	GFS 150	GFS 200	GFS 250	GFS 300	GFS 350	GFS 400	GFS 450	GFS 500	GFS 600	
Tensile Strength	M											
[ASTM D 4595]	T	KN/m	3.6	4.5	7.5	10.0	13.0	14.0	16.4	18.0	20.0	28.0
Tensile Elongation	M	%	4.5	6.2	10.0	12.5	16.0	17.5	20.5	22.5	25.0	32.0
[ASTM D 4595]	T		50	50	50	50	50	50	50	50	50	50
Grab Strength	M	N	188	258	369	420	760	788	907	967	1045	1245
[ASTM D 4632]	T		260	326	594	696	875	920	1043	1128	1259	1610
Grab Elongation	M	%	50	50	50	50	50	50	50	50	50	50
[ASTM D 4632]	T											
Trapezoidal Tear	M	N	112	120	188	200	246	267	288	311	377	488
[ASTM D 4533]	T		130	145	209	250	315	357	360	414	441	629
CBR Burst Strength	M	KN(>=)	0.45	0.64	1.44	1.53	1.88	2.40	2.80	3.20	3.76	4.40
[ASTM D 6241]	T		0.65	0.74	1.60	1.96	2.25	3.00	3.50	3.96	4.70	5.50
Puncture resistance	M	N(>=)	184	276	368	460	552	644	656	828	920	1104
[ASTM D 4833]	T		230	345	460	575	690	805	820	1035	1150	1380

Hydraulic Properties

Flow Rate, 100mm head	L/s/m ²	161	142	106	85.5	75	61	53.2	50	48	44
[ASTM D 4491]											
Flow Rate, 50mm head	L/min/m ²	5600	4735	3251	2922	2659	2397	2113	2045	2013	1976
[ASTM D 4491]											
Permeability	(cm/s)	0.21	0.17	0.15	0.13	0.12	0.23	0.08	0.08	0.08	0.08
[ASTM D 4491]											
Apparent Opening Size O90	mm	0.089	0.079	0.061	0.061	0.062	0.074	0.061	0.059	0.057	0.059
[ASTM D 4751]											
Apparent Opening Size O95	mm	0.097	0.090	0.068	0.069	0.069	0.078	0.069	0.066	0.065	0.062
[ASTM D 4751]											

Physical Identification Properties

Thickness[ASTMD5199] (2KP)	mm	1.0	1.7	2.1	2.4	2.5	2.8	3.0	3.2	3.5	3.6
Roll Width	m(≤)	6	6	6	6	6	6	6	6	6	6
Roll Length	m(≥)	375	250	185	150	125	105	95	85	75	70
Approx Load Q'ty per 40' HQ	Sq. m	90000	60000	44400	36000	30000	25200	22800	20400	18000	16800

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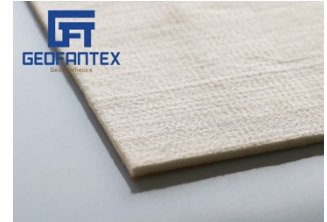
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Mechanical Properties

Properties (Standard)	Unit	GFS 800	GFS 1000	GFS 1200	GFS 1400	GFS 2000
Tensile Strength	M	40.0	55.0	59.0	65.0	91.0
[ASTM D 4595]	T	52.0	61.0	64.0	70.0	99.0
Tensile Elongation	M	50	50	50	50	50
[ASTM D 4595]						
Grab Strength	M	2019	3271	3351	3509	4513
[ASTM D 4632]	T	2731	3622	3812	4047	5279
Grab Elongation	M	50	50	50	50	50
[ASTM D 4632]						
Trapezoidal Tear	M	652	1155	1221	1325	1781
[ASTM D 4533]	T	998	1422	1531	1656	2254
CBR Burst Strength	M	5.95	8.92	9.44	10.76	14.15
[ASTM D 6241]	T	6.88	9.40	9.80	11.20	14.60

Hydraulic Properties

Flow Rate, 100mm head	L/s/m ²	79	61	44	36	30
[ASTM D 4491]						
Flow Rate, 50mm head	L/min/ m ²	2449	1710	1133	966	633
[ASTM D 4491]						
Permeability	(cm/s)	0.35	0.33	0.32	0.30	0.29
[ASTM D 4491]						
Apparent Opening Size O90	mm	0.089	0.079	0.061	0.061	0.062
[ASTM D 4751]						
Apparent Opening Size O95	mm	0.097	0.090	0.068	0.069	0.069
[ASTM D 4751]						

Physical Identification Properties

Thickness[ASTMD5199] (2KP)	mm	4.8	5.7	6.1	7.4	9.5
Roll Width	m(≤)	4	4	4	4	4
Roll Length	m(≥)	57	45	38	32	23
Approx Load Q'ty per 40' HQ	Sq. m	13680	10800	9120	7680	5520

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