

GeofanTex GFP Range textiles

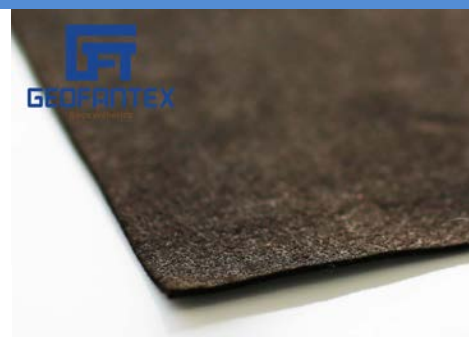
Technical Data Sheet

GFT GeofanTex GFP Jan. 2018

GeofanTex GFP is 100% Polypropylene Staple Fiber Needle Punched non-woven Geotextile. The high quality PP raw material offers the most stable polymer against chemical / biological attack in groundwater with extreme pH conditions.

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

- **Filtration**
- **Coastal hydraulic works**
- **Drainage**
- **Protection of geomembranes in landfill lining systems**



GeofanTex GFP 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 - MARV)

Properties (Standard)	Unit	GFP 100	GFP 150	GFP 200	GFP 250	GFP 300	GFP 350	GFP 400	GFP 450	GFP 500	GFP 550	GFP 600
Tensile Strength	T	6.0	10	13	17	21	25	29	32	34	38	44
[ASTM D 4595]	M	4.8	7.8	11	15	17	19	23	25	26	28	31
Tensile Elongation	T	80	70	70	70	60	60	60	60	60	60	60
[ASTM D 4595]	M	50	50	50	50	50	50	50	50	50	50	50
Grab Strength	T	0.37	0.52	0.65	0.87	0.99	1.32	1.58	1.75	1.94	2.07	2.3
[ASTM D 4632]	M	0.29	0.39	0.52	0.70	0.75	1.09	1.33	1.35	1.54	1.64	2.1
Grab Elongation	T	80	70	70	60	60	60	60	60	60	60	60
[ASTM D 4632]	M	50	50	50	50	50	50	50	50	50	50	50
Trapezoidal Tear	T	0.16	0.24	0.29	0.39	0.44	0.51	0.64	0.68	0.74	0.80	0.90
[ASTM D 4533]	M	0.12	0.18	0.20	0.30	0.38	0.43	0.51	0.52	0.63	0.63	0.75
CBR Burst Strength	T	1.11	1.67	2.23	2.77	3.4	3.8	5.2	5.3	5.9	6.05	6.19
[ASTM D 6241]	M	0.85	1.25	1.82	2.41	3.0	3.2	3.9	4.0	5.03	4.7	5.78
Puncture resistance	T	0.21	0.31	0.44	0.50	0.57	0.72	0.86	0.97	1.02	1.04	1.05
[ASTM D 4833]	M	0.16	0.22	0.24	0.38	0.50	0.58	0.83	0.77	0.81	0.86	0.96

Hydraulic Properties

Flow Rate, 100mm head	L/s/m ²	161	142	106	85.5	75	61	53.2	50	48	44	40
[ASTM D 4491]												
Flow Rate, 50mm head	L/min/m ²	5600	4735	3251	2922	2659	2397	2113	2045	2013	1976	1889
[ASTM D 4491]												
Apparent Opening Size O ₉₅	microns	120	110	100	90	90	75	75	75	75	75	75
[ASTM D 4751]	≤											
Apparent Opening Size O ₉₀	μ m	120	120	120	120	120	110	110	110	110	110	110
[EN ISO 12956]	≤											
Permittivity [ASTM D 4491]	Sec ⁻¹	2.5	2.3	2.0	1.3	1.1	0.9	0.8	0.7	0.7	0.6	0.5

Endurance

UV Resistance	%	70	70	70	70	70	70	70	70	70	70	70
Strength Retained @ 500hrs												

Physical Identification Properties

Thickness (2KP)	T	0.9	1.1	1.2	1.3	1.5	2.0	2.2	2.5	2.8	3.0	4.3
[ASTMD5199]	M	0.7	0.9	1.0	1.1	1.3	1.8	1.9	2.2	2.7	2.7	4.0
Mass per Unit	T	100	150	200	250	300	350	400	450	500	550	600
[ASTM D5261]												
Roll Width	m(≤)	2/4/6	2/4/6	2/4/6	2/4/6	2/4/6	2/4/6	2/4/6	2/4/6	2/4/6	2/4/6	2/4/6
Roll Length	m(≥)	440	290	220	175	145	125	110	100	90	80	75
Approx Load Q'ty / 40' HQ	Sq. m	105600	69600	52800	42000	34800	30000	26400	24000	21600	19200	18000

Above values are on an average basis, the data was obtained from in-house test laboratory, National test institutes and international test institutes. GFT keeps the right of data changes and the final explanation right. Liability Exclusion: This publication should not be construed as engineering advice. While information contained here is accurate to the best of our knowledge, GFT does not warrant its accuracy or completeness. The only warranty made by GFT for its products is set forth in our Product Test Report accompanies our shipment of the products, or such other written warranty as may be agreed by GFT and customer. GFT specifically disclaims all other warranties, express or implied, including without agreed by GFT and customer. GFT specifically disclaims all other warranties, express or implied, including without limitation, warranties of merchantability or fitness for a particular purpose, or arising from provision of samples, a course of dealing or usage of trade.



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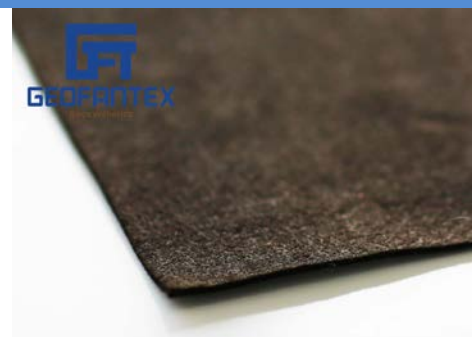
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Mechanical Properties

(T: Typical value M: Minimum Average Roll Value - MARV)

Properties (Standard)	Unit	GFP 800	GFP 1000	GFP 1200	GFP 2000
Tensile Strength	T	56	67	82	135
[ASTM D 4595]	M	42	51	65	102
Tensile Elongation	T	60	60	60	60
[ASTM D 4595]	M	50	50	50	50
Grab Strength	T	2.9	3.4	4.55	7.15
[ASTM D 4632]	M	2.1	2.4	3.23	5.43
Grab Elongation	T	60	60	60	60
[ASTM D 4632]	M	50	50	50	50
Trapezoidal Tear	T	1.05	1.26	1.67	2.77
[ASTM D 4533]	M	0.90	1.08	1.39	2.19
CBR Burst Strength	T	8.19	10.43	12.58	20.58
[ASTM D 6241]	M	6.78	8.67	10.57	16.89
Puncture resistance	T	1.05	1.33	1.46	2.26
[ASTM D 4833]	M	0.96	1.24	1.38	2.83

Hydraulic Properties

Flow Rate, 100mm head	L/s/m ²	38	36	36	N/A
[ASTM D 4491]					
Flow Rate, 50mm head	L/s*sqm	1812	1759	1533	N/A
[ASTM D 4491]					
Apparent Opening Size O ₉₅	microns≤	70	70	70	N/A
[ASTM D 4751]					
Apparent Opening Size O ₉₀	μ m≤	105	105	104	N/A
[EN ISO 12956]					
Permittivity[ASTM D 4491]	Sec ⁻¹	0.4	0.4	0.4	N/A

Physical Identification Properties

Thickness (2KP)	T	5.01	5.65	6.15	N/A
[ASTMD5199]	M	4.43	4.93	5.87	N/A
Mass per Unit	T	800	1000	1200	2000
[ASTM D5261]					
Roll Width	m(≤)	4	4	4	4
Roll Length	m(≥)	57	45	40	24
Approx Load Q'ty / 40' HQ	Sq. m	13680	10800	9600	5760

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