

GeofanTex GFP Geotextile

Technical Data Sheet

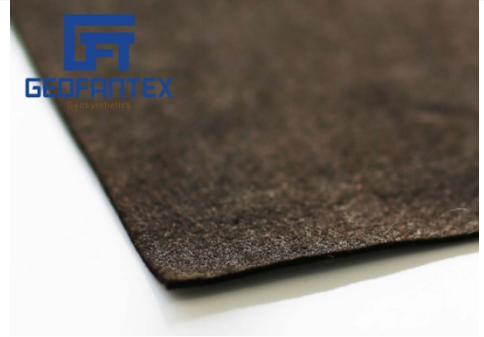
GeofanTex GFP Jan. 2018

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

Hydraulic Properties

Flow Rate, 100mm head [ASTM D 4491]	L/s/m ²	161	142	106	85.5	75	61	53.2	50	48	44	40
Flow Rate, 50mm head [ASTM D 4491]	L/min/m ²	5600	4735	3251	2922	2659	2397	2113	2045	2013	1976	1889
Apparent Opening Size O ₉₅ [ASTM D 4751]	microns ≤	120	110	100	90	90	75	75	75	75	75	75
Apparent Opening Size O ₉₀ [EN ISO 12956]	µm ≤	120	120	120	120	120	110	110	110	110	110	110
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 Strength Retained @ 500hrs	%	70	70	70	70	70	70	70	70	70	70	70
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Physical Identification Properties

Thickness (2KP) [ASTMD5199]	M T mm	0.9 0.7	1.1 0.9	1.2 1.0	1.3 1.1	1.5 1.3	2.0 1.8	2.2 1.9	2.5 2.2	2.8 2.7	3.0 2.7	4.3 4.0
Mass per Unit [ASTM D5261]	T g/m ²	100	150	200	250	300	350	400	450	500	550	600
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

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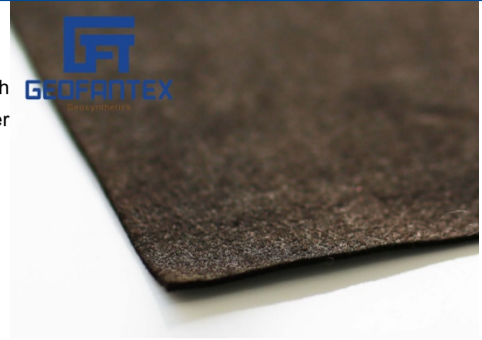
GeofanTex GFP May 2019

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

Hydraulic Properties

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

Physical Identification Properties

Thickness (2KP) [ASTMD5199]	T	5.01	5.65	6.15	N/A
	M	4.43	4.93	5.87	N/A
Mass per Unit [ASTM D5261]	T	800	1000	1200	2000
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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