

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	GFP 1200
Tensile Strength [ASTM D 4595]	T M KN/m	6.0 4.8	10.5 7.8	13.6 10.9	17.3 15.2	21 17.4	25.2 19.3	29.3 23.6	32.1 24.7	34.6 26.7	38.3 27.8	44 31.4	70 64.4
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	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 2.14	4.84 4.72
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	60 50
Trapezoidal Tear [ASTM D 4533]	T M KN	0.16 0.12	0.24 0.18	0.29 0.20	0.51 0.41	0.42 0.37	0.51 0.43	0.65 0.56	0.68 0.52	0.71 0.55	0.80 0.63	1.05 0.90	1.83 1.61
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 34.2	5.2 3.9	5.3 4.0	5.9 5.03	6.05 4.7	6.19 5.78	11.87 10.92
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	1.89 1.78
Cone drop(D500) [BS EN 918]	T Mm	108	72	68	54.4	45	35.2	30.8	24.3	21.85	19.8	18.15	9.3
Cone drop(H50) [AS 3706.5]	T Mm	950	1100	1990	2650	3180	3750	3960	4455	4950	5600	6109	12218

Hydraulic Properties

Flow Rate, Q ₁₀₀ [ASTM D 4491]	L/s/m ²	250	250	200	135	100	90	80	70	75	70	60	30
Flow Rate, 50mm head [EN ISO 11058]	L/s*sqm	1101	105	100	95	90	80	75	70	60	50	55	25
Apparent Opening Size O ₉₅ [ASTM D 4751]	microns≤	120	110	100	90	90	75	75	75	75	75	75	50
Apparent Opening Size O ₉₀ [EN ISO 12956]	μ m≤	120	120	120	120	120	110	110	110	110	110	110	80
Permittivity [ASTM D 4491]	Sec ⁻¹	2.5	2.5	2.0	1.3	1.1	0.9	0.8	0.75	0.7	0.6	0.5	0.2

Endurance

UV Resistance Strength Retained @ 500hrs	%	70	70	70	70	70	70	70	70	70	70	70	70
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Physical Identification Properties

Thickness (2KP) [ASTMD5199]	T M mm	0.96 0.73	1.15 0.94	1.22 1.01	1.39 1.14	1.56 1.30	2.01 1.89	2.23 1.98	2.52 2.25	2.87 2.74	3.02 2.77	4.3 4.0	7.0 6.81
Mass per Unit [ASTM D5261]	T g/m ²	100	150	200	250	300	350	400	450	500	550	600	1200
Roll Width	m(≤)	6/4	6/4	6/4	6/4	6/4	6/4	6/4	6/4	6/4	6/4	6/4	6/4
Roll Length	m(≥)	440	290	220	175	145	125	110	100	90	80	75	38
Approx Load Q'ty / 40' HQ	Sq. m	105600	69600	52800	42000	34800	30000	26400	24000	21600	19200	18000	9120

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.



Dalian GFT Geosynthetics CO.,LTD

201 Yiyilou, 100 Wenhua Street, Zhongshan Dist., Dalian, China

TEL.:86-411-39569550 Fax: 86-4008266163-44899

Web:www.geofantex.com Email:info@geofantex.com

