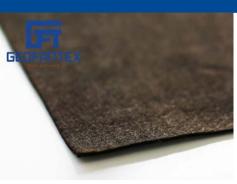
# GeofanTex<sup>®</sup> GFP Geotextile

#### Technical Data Sheet GeofanTex<sup>®</sup> GFP Jan. 2020

GeofanTex<sup>®</sup> 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<sup>®</sup> 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	т		6.0	10	13	17	21	25	29	32	34	38	44	
[ASTM D 4595]	М	KN/m	4.8	7.8	11	15	17	19	23	25	26	28	31	
Tensile Elongation	т	%	80	70	70	70	60	60	60	60	60	60	60	
[ASTM D 4595]	М		50	50	50	50	50	50	50	50	50	50	50	
Grab Strength	т	KN	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]	М	<b>N</b> IN	0.29	0.39	0.52	0.70	0.75	1.09	1.33	1.35	1.54	1.64	2.1	
Grab Elongation [ASTM D 4632]	т	%	80	70	70	60	60	60	60	60	60	60	60	
	М		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]	М	KN	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 [ASTM D 6241]	т	KN(>=)	1.11	1.67	2.23	2.77	3.4	3.8	5.2	5.3	5.9	6.05	6.19	
	Μ		0.85	1.25	1.82	2.41	3.0	3.2	3.9	4.0	5.03	4.7	5.78	
Puncture resistance	т		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]		KN(>=)	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 <sup>2</sup>	161	142	106	85.5	75	61	53.2	50	48	44	40	
[ASTM D 4491]														
Flow Rate, 50mm head		L/min/ m²	5600	4735	3251	2922	2659	2397	2113	2045	2013	1976	1889	
[ASTM D 4491]														
Apparent Opening Size O <sub>95</sub> [ASTM D 4751] Apparent Opening Size O <sub>90</sub> [EN ISO 12956]		microns ≤	120	110	100	90	90	75	75	75	75	75	75	
		µm≤	120	120	120	120	120	110	110	110	110	110	110	
Permittivity[ASTM D 449	91]	Sec <sup>-1</sup>	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	
Physical Identification		erties												
Thickness (2KP)		mm	0.9	1.1	1.2	1.3	1.5	2.0	2.2	2.5	2.8	3.0	4.3	
	Т		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 [ASTM D5261]	-	g/m²	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' H	IQ	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. Geofantex Geosynthetics 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, Geofantex Geosynthetics does not warrant its accuracy or completeness. The only warranty made by Geofantex Geosynthetics 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 Geofantex Geosynthetics and customer. Geofantex Geosynthetics specifically disclaims all other warranties, express or implied, including without limitation, warranties of merchantability or fitness for a particular purpose, or rising from provision of samples, a course of dealing or usage of trade.



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## GeofanTex<sup>®</sup> GFP Geotextile

**Technical Data Sheet** 

GeofanTex<sup>®</sup> GFP May 2020

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### Mechanical Properties



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