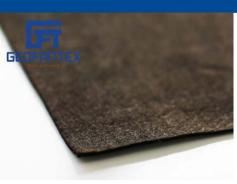
GeofanTex[®] GFP Geotextile

Technical Data Sheet GeofanTex[®] GFP Jan. 2020

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	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	N 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 ²	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 ₉₅ [ASTM D 4751] Apparent Opening Size O ₉₀ [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 ⁻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	
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	

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GeofanTex[®] GFP May 2020

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Mechanical Properties



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