

Geofantex GFE geotextile

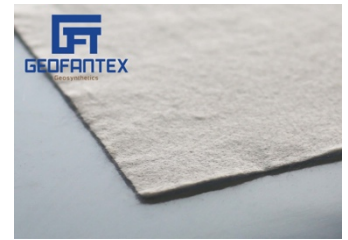
Technical Data Sheet

Geofantex GFE June 2019

Geofantex GFE is 100% Polyester Continuous Filament Needle Punched non-woven Geotextile. Typically, this form of manufacturing offers superior hydraulic performance and high resistance to site installation stresses due to the nature of the continuous filament structure.

Applications - separation, filtration, protection, reinforcement and drainage.

Geofantex GFE 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	GFE 100	GFE 150	GFE 200	GFE 250	GFE 300	GFE 350	GFE 400	GFE 450	GFE 500	GFE 550	GFE 600	GFE 800
Tensile Strength [ASTM D 4595]	T KN/m	7.7	11.6	14.6	18	21	24	28	30	35	38	42	56
	M	6.0	9.1	11.4	14.3	15.6	21	23	24	30	30	32	46
Tensile Elongation [ASTM D 4595]	T %	80	70	60	60	60	60	60	60	60	60	60	60
	M	50	50	50	50	50	50	50	50	50	50	50	50
Grab Strength [ASTM D 4632]	T N	420	630	810	1070	1310	1520	1740	1990	2500	2750	3130	3490
	M	330	420	570	760	1060	1120	1260	1600	1910	2070	2310	2530
Grab Elongation [ASTM D 4632]	T %	80	70	60	60	60	60	60	60	60	60	60	60
	M	50	50	50	50	50	50	50	50	50	50	50	50
Trapezoidal Tear [ASTM D 4533]	T N	200	300	340	460	530	610	650	750	850	950	1030	1300
	M	150	210	250	320	430	450	530	580	640	800	903	1060
CBR Burst Strength [ASTM D 6241]	M KN(>=)	1.2	1.9	2.4	3.0	4.0	4.5	5.2	5.4	6.3	7.0	7.5	10.5
Puncture resistance [ASTM D 4833]	M N(>=)	180	270	350	430	480	560	640	720	800	910	930	1290

Hydraulic Properties

Flow Rate, Q ₁₀₀ [ASTM D 4491]	L/s/m ²	220	210	180	150	140	130	120	110	100	90	80	70
Permeability [ASTM D 4491]	cm/s	0.48	0.44	0.41	0.37	0.35	0.34	0.30	0.30	0.29	0.29	0.29	0.28
Apparent Opening Size O ₉₅ [ASTM D 4751]	mm≤	0.13	0.12	0.12	0.11	0.11	0.10	0.09	0.08	0.07	0.06	0.055	0.050
Apparent Opening Size O ₉₀ [ASTM D 4751]	mm≤	0.12	0.11	0.11	0.10	0.10	0.08	0.08	0.08	0.07	0.06	0.050	0.050

Physical Identification Properties

Thickness [ASTMD5199] (2KP)	mm	1.2	1.8	2.3	2.9	3.2	3.7	4.1	4.3	4.6	4.8	5.1	7.3
Roll Width	m(≤)	6	6	6	6	6	6	6	6	6	6	6	6
Roll Length	m(≥)	355	235	175	140	120	100	90	80	70	65	60	45
Approx Load Q'ty per 40' HC	Sqmts	85,200	56,400	42,000	33,600	22,800	24,000	21,600	19,200	16,800	15,600	14,400	10,800

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