

Geofantex GFE Range geotextile

Technical Data Sheet

Geofantex GFE Jan. 2018

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 125	GFE 150	GFE 200	GFE 250	GFE 300	GFE 350	GFE 400	GFE 450	GFE 500	GFE 550	GFE 600
Tensile Strength [ASTM D 4595]	T M KN/m	7.7 6.0	9 7.5	11.6 9.1	14.6 11.4	18 14.3	21 15.6	24 21	28 23	30 24	35 30	38 30	42 32
Tensile Elongation [ASTM D 4595]	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
Grab Strength [ASTM D 4632]	T M N	420 330	525 350	630 420	810 570	1070 760	1310 1060	1520 1120	1740 1260	1990 1600	2500 1910	2750 2070	3130 2310
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 N	200 150	250 200	300 210	340 250	460 320	530 430	610 450	650 530	750 580	850 640	950 800	1030 903
CBR Burst Strength [ASTM D 6241]	M KN(>=)	1.2	1.5	1.9	2.4	3.0	4.0	4.5	5.2	5.4	6.3	7.0	7.5
Puncture resistance [ASTM D 4833]	M N(>=)	180	225	270	350	430	480	560	640	720	800	910	930
Mullen Burst [ASTM D 3786]	M Mpa	1.2	1.3	1.7	2.0	2.6	3.1	3.8	4.4	5.0	5.5	6.0	6.2
Cone drop resistance (H50)[BS EN 918]	T m	1.3	1.4	1.7	2.0	2.3	2.5	3.0	3.4	4.1	4.4	4.9	5.4

Hydraulic Properties

Flow Rate, Q ₁₀₀ [ASTM D 4491]	L/s/m ²	220	220	210	180	150	140	130	120	110	100	90	80
Permeability[ASTM D 4491]	cm/s	0.48	0.46	0.44	0.41	0.37	0.35	0.34	0.30	0.30	0.29	0.29	0.29
Apparent Opening Size O ₉₅ [ASTM D 4751]	mm _≤	0.13	0.13	0.12	0.12	0.11	0.11	0.10	0.09	0.08	0.07	0.06	0.065
Apparent Opening Size O ₉₀ [ASTM D 4751]	mm _≤	0.12	0.12	0.11	0.11	0.10	0.10	0.08	0.08	0.08	0.07	0.06	0.065

Physical Identification Properties

Thickness [ASTMD5199] (2KP)	mm	1.2	1.5	1.8	2.3	2.9	3.2	3.7	4.1	4.3	4.6	4.8	5.1
Roll Width	m(≤)	6	6	6	6	6	6	6	6	6	6	6	6
Roll Length	m(≥)	355	285	235	175	140	120	100	90	80	70	65	60
Approx Load Q' ty per 40' HC	Sqmts	85,200	68,400	56,400	42,000	33,600	22,800	24,000	21,600	19,200	16,800	15,600	14,400

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 warranty, 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 rising from provision of samples, a course of dealing or usage of trade.



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