

# Geofantex® GFE Range geotextile

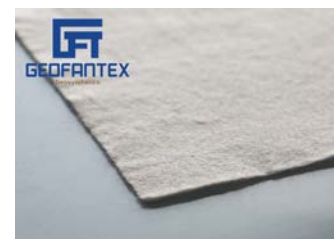
## Technical Data Sheet

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 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 M KN/m	7.7	11.6	14.6	18	21	24	28	30	35	38	42	56
Tensile Elongation [ASTM D 4595]	T M %	80	70	60	60	60	60	60	60	60	60	60	60
Grab Strength [ASTM D 4632]	T M N	420	630	810	1070	1310	1520	1740	1990	2500	2750	3130	3490
Grab Elongation [ASTM D 4632]	T M %	80	70	60	60	60	60	60	60	60	60	60	60
Trapezoidal Tear [ASTM D 4533]	T M N	200	300	340	460	530	610	650	750	850	950	1030	1300
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 <sub>100</sub> [ASTM D 4491]	L/s/m <sup>2</sup>	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 <sub>95</sub> [ASTM D 4751]	mm <sub>≤</sub>	0.13	0.12	0.12	0.11	0.11	0.10	0.09	0.08	0.07	0.06	0.05	0.05
Apparent Opening Size O <sub>90</sub> [ASTM D 4751]	mm <sub>≤</sub>	0.12	0.11	0.11	0.10	0.10	0.08	0.08	0.08	0.07	0.06	0.05	0.05

## Physical Identification Properties

Thickness (2KP) [ASTMD5199]	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

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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