

G-TEX GE Range textiles

Technical Data Sheet

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G-TEX is 100% Polyester Continuous Filament Needle punched non woven Geotextile. It has been characterized by high strength, maximum width (6 m) and UV resistant itself without inhibitor. It is resistant to commonly encountered soil chemicals, mildew and insects, and is non biodegradable.



Mechanical Properties

(T: Typical value M: Minimum average roll value)

Properties (Standard)	Unit	GE 100	GE 125	GE 150	GE 200	GE 250	GE 300	GE 350	GE 400	GE 450	GE 500	GE 550	GE 600
Tensile Strength [ASTM D 4595]	T M KN/m	7 5.5	9 7.5	10.5 8.5	14 12	17 15	21 18	24 20	25 22	27 24	29 27	31 29	33 31
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	400 350	550 450	600 550	850 700	1000 900	1250 1100	1450 1250	1700 1450	1900 1600	2100 1800	2300 2000	2500 2150
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	300 230	400 300	500 400	600 450	700 550	750 600	800 650	900 750	950 800	1000 900
CBR Burst Strength [ASTM D 6241]	M KN(>=)	1.0	1.5	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	7.0	7.5
Puncture resistance [ASTM D 4833]	M N(>=)	220	275	310	450	520	600	730	880	990	1050	1150	1300
Mullen Burst [ASTM D 3786]	M Mpa	1.2	1.3	1.6	2.0	2.6	3.1	3.8	4.4	5.0	5.5	6.0	6.2
Cone drop resistance (hole-Ø)[BS EN 918]	T mm	34	32	29	27	23	20	16	12	11	10	9	9

Hydraulic Properties

Flow Rate, Q ₁₀₀ [ASTM D 4491]	L/s/m ²	200	200	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 [ASTM D 5199] (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(≥)	340	270	225	170	135	115	95	85	75	70	60	55
Approx Load Q'ty per 40' HQ	Sq. m	65,280	51,840	43,200	32,640	25,920	22,080	18,240	16,320	14,400	13,440	11,520	10,560

Above values are on an average basis, the data was obtained from in-house test laboratory, National test institutes and international test institutes. GEO-LINK 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, GEO-LINK does not warrant its accuracy or completeness. The only warranty made by GEO-LINK 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 GEO-LINK and customer. GEO-LINK specifically disclaims all other warranties, express or implied, including without agreed by GEO-LINK and customer. GEO-LINK specifically disclaims all other warranties, express or implied, including without limitation, warranties of merchantability or fitness for a particular purpose, or arising from provision of samples, a course of dealing or usage of trade.



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