



G-Tex® GLS-V range products are of a type of nonwoven geotextile composed of virgin polyester short fibres which are formed into a stable network such that the fibres retain their relative position. G-Tex® GLS-V range products are inert to biological degradation and resists naturally encountered chemicals, acids and alkalis.

Date: 4th May 2014

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

Properties (Standard)	Unit	GLS-V 100	GLS-V 150	GLS-V 200	GLS-V 250	GLS-V 300	GLS-V 350	GLS-V 400	GLS-V 450	GLS-V 500	GLS-V 550	GLS-V 600	GLS-V 800	GLS-V 1000	GLS-V 1200
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Mechanical Properties

Tensile Strength [ASTM D 4595]	T	KN/m	4.5	5.9	10	12.5	18.6	17.5	20.0	22.5	25.0	27.5	37.1	52.4	66.5	67.1
	M		3.78	4.8	8.4	10.5	16.2	14.7	16.8	18.9	21	23.1	33.4	45.1	60.2	60.2
Tensile Elongation [ASTM D 4595]	T	%	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Grab Strength [ASTM D 4632]	T	N	240	317	585	648	955	855	990	1113	1236	1360	1918	2910	3844	3855
	M		182	253	387	450	744	718	855	935	1038	1142	1319	2238	3370	3344
Grab Elongation [ASTM D 4632]	T	%	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Trapezoidal Tear [ASTM D 4533]	T	KN	0.12	0.159	0.21	0.23	0.42	0.33	0.36	0.41	0.45	0.50	0.71	1.00	1.53	1.53
	M		0.10	0.12	0.18	0.20	0.37	0.25	0.28	0.31	0.38	0.42	0.56	0.73	1.36	1.33
CBR Burst Strength [ASTM D 6241]	T	KN(>=)	0.66	0.75	1.58	1.97	2.96	2.81	3.24	3.64	4.40	4.8	5.9	7.9	10.6	10.6
	M		0.56	0.63	1.32	1.66	2.51	2.36	2.72	3.06	3.70	4.06	5.06	6.98	9.96	9.93

Hydraulic Properties

Flow Rate @50mm head [ASTM D 4491]	T	l/min/m ²	N/A	4800	2790	2440	N/A	1700	2270	N/A	800	N/A	3100	2350	1720	1240
Flow Rate @100mm head [ASTM D 4491]	T	l/sec/m ²	N/A	158	91	80	N/A	56	75	N/A	26	N/A	102	77	56	41
Permeability [ASTM D 4491]	T	cm/s	N/A	0.21	0.15	0.13	N/A	0.12	0.23	N/A	0.08	N/A	0.46	0.43	0.42	0.3
Permittivity [ASTM D 4491]	T	Sec ⁻¹	N/A	1.58	0.91	0.8	N/A	0.56	0.75	N/A	0.26	N/A	1.02	0.77	0.56	0.41
Apparent Opening Size O ₉₀ [ASTM D 4751]	T	mm	N/A	0.089	0.062	0.061	N/A	0.062	0.074	N/A	0.061	N/A	0.085	0.094	0.075	0.061
Apparent Opening Size O ₉₅ [ASTM D 4751]	T	mm	N/A	0.097	0.069	0.069	N/A	0.069	0.078	N/A	0.069	N/A	0.092	0.100	0.082	0.069

Endurance Properties

UV Resitance [ASTM D 4355]	T		Wide width tensile strength retained by not less than 70% after 500h exposure												
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Physical Identification Properties

Thickness (2KP) [ASTMD5199]	T	mm	N/A	1.32	1.8	1.58	N/A	2.12	3.1	N/A	2.94	N/A	4.52	5.58	7.5	7.4
	M		N/A	1.1	1.5	1.3	N/A	1.8	2.6	N/A	2.5	N/A	3.8	4.7	6.3	6.2
Mass per Unit [ASTM D5261]	T	g/m ²	100	150	200	250	300	350	400	450	500	550	600	800	1000	1200
Roll Width	T	m(<=)	4/6													
Roll Length	T	m	400	275	210	165	140	120	105	95	85	75	70	50	40	35
Approx Load Q' ty / 40' HQ	T	Rolls(>=)	60/40													
	T	Sq. m	96000	66000	50400	39600	33600	28800	25200	22800	20400	18000	16800	12000	9600	8400

Above values are on an average basis, the data was obtained from in-house test laboratory, National test institutes and international test institutes. It yields a 97.7% confidence in values of MARV and 50% confidence in values of typical that shipments quality complying with statistics published here. 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 rising from provision of samples, a course of dealing or usage of trade. (1/1/2014)

