



Geosolutions

**EGS PET Non Woven Geotextile Range**

EGS PET non woven geotextile 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. They are inert to biological degradation and resists naturally encountered chemicals, acids and alkalis.

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

Properties (Standard)	Unit	100	150	200	250	300	350	400	450	500	550	600	800	1000	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	0.763	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 <sup>2</sup>	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 <sup>2</sup>	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 <sup>-1</sup>	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 <sub>90</sub> [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 <sub>95</sub> [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 <sup>2</sup>	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. EGS Laboratory is improving continuously with the purpose of assuring reliable quality. EGS Geosolutions reserves the right to change the product specifications at any time. Liability Exclusion: This publication should not be construed as engineering advice.



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