

G-TEX® EV range products are of a type of nonwoven geotextile composed of virgin polyester continuous filaments which are formed into a stable network by needle punching such that the fibres retain their relative position. G-TEX® EV range geotextiles are inert to biological degradation and resists naturally encountered chemicals, acids and alkalis. G-TEX® EV range geotextiles are manufactured in accordance to ISO 9001 quality system.

PROPERTIES [Standards]	Unit	EV 0-9	EV 1-1	EV 1-2	EV 1-4	EV 1-9	EV 2-4	EV 2-9	EV 3-4	EV 3-9	EV 4-4	EV 4-9	EV 6-4
Mechanical Properties (Mechanical values published here which involves machine direction and cross machine direction are in weak direction)													
Wide Widths Tensile [ASTM D4595/AS3706.2]	Typical	7.0	9.5	10.5	12.5	15.5	17.5	20.0	22.5	29.5	32.0	40.0	43.0
	MARV	6.0	8.5	9.5	10.5	13.0	15.0	16.6	20.5	26.0	28.5	36.5	38.5
	Minimum	5.8	8.4	9.3	10.2	12.8	14.7	16.5	20.2	25.7	28.1	36.3	38.1
Wide strip toughness [AS3706.2]	Typical	1.8	2.4	2.6	3.1	3.9	4.4	5.0	5.6	7.4	8.0	11.0	12.9
	MARV	1.2	1.7	1.9	2.1	2.6	3.0	3.3	4.1	5.2	5.7	7.3	8.7
	Minimum	1.1	1.6	1.8	2.0	2.5	2.9	3.2	4.0	5.1	5.6	7.2	8.6
Grab Strength [ASTM D 4632/AS3706.2]	Typical	500	620	700	750	950	1,030	1,280	1,420	2,030	2,210	2,760	3,020
	MARV	420	520	580	650	820	870	1,110	1,220	1,600	1,860	2,500	2,640
	Minimum	410	500	570	640	800	850	1,100	1,210	1,590	1,850	2,490	2,620
Trapezoidal Tear [ASTM D 4533/AS3706.3]	Typical	200	250	280	320	390	420	495	560	730	795	1,000	1,090
	MARV	160	200	225	250	310	345	410	480	590	650	870	940
	Minimum	150	190	210	245	300	340	400	465	575	640	860	930
CBR Burst Strength [ASTM D 6241/AS3706.4]	Typical	1,300	1,700	1,980	2,290	2,710	3,010	3,810	4,170	5,660	6,270	7,260	7,500
	MARV	1,120	1,420	1,560	1,780	2,250	2,600	2,970	3,570	4,840	5,390	6,440	6,690
	Minimum	1,100	1,390	1,530	1,750	2,210	2,580	2,950	3,540	4,800	5,350	6,400	6,620
G Rating [Austroads]	Typical	890	1,100	1,250	1,750	2,000	2,050	2,800	3,080	4,450	5,000	5,970	6,250
	MARV	730	930	1,050	1,380	1,660	1,710	2,300	2,540	3,600	4,230	5,150	5,480
	Minimum	710	910	1,020	1,350	1,620	1,680	2,280	2,500	3,570	4,190	5,100	5,460

Hydraulic Properties

Flow Rate @100mm head [ASTM D 4491/AS3706.9]	Typical	L/m ² /s	270	250	250	250	200	200	180	180	120	120	100	100
Permeability [ASTM D 4491/AS3706.9]	Typical	cm/s	2.7	2.5	2.5	2.5	2.0	2.0	1.8	1.8	1.2	1.2	1.0	1.0
Permittivity [ASTM D 4491/AS3706.9]	Typical	Sec ⁻¹	24	28	30	35	36	48	52	58	46	50	52	49
Apparent Opening Size O ₉₅ [ASTM D 4751/AS3706.7]	Typical	µm	180	180	180	150	150	150	150	150	125	125	80	75

Endurance Properties

UV Resitance [ASTM D 4355/AS3706.11]	-	50% - 70% customized (strength retained after 500h exposure)
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Roll Dimensions & Loadabilities

Roll Width	-	m	6	6	6	6	6	6	6	6	6	6	6	6
Approx Load Q' ty / 40' HQ	-	Rolls	Determined according to the customized specifications											
	-	Sq. m	Determined according to the customized specifications											

Above values are on an average basis, the data was obtained from in-house test laboratory and independent laboratory which is CNAS accredited. It yields a 100% confidence in values of Minimum, 97.5% confidence in values of MARV and 50% confidence in values of typical that shipments quality complying with statistics published here. GeoTrans keeps the right of data changes and the final explanation right, data changes may happens at any point in time in pursuit of continued product quality R&D without having any liability whatsoever to any of the outside parties or for making any prior notifications thereof.

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