

G-Tex® MRTS 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® MRTS range geotextiles are inert to biological degradation and resists naturally encountered chemicals, acids and alkalis. G-Tex® MRTS range geotextiles are manufactured in accordance to ISO 9001 quality system to comply with MRTS 27 specifications for civil applications usage.

PROPERTIES [Standards]		Unit	GE MRTS27A	GE MRTS27B	GE MRTS27C	GE MRTS27D	GE MRTS27E
Mechanical Properties (Mechanical values published here which involves machine direction and cross machine direction are in weak direction)							
Wide Width Tensile Strength [AS3706.2a]	Typical MARV	KN/m	10.5 9.5	14.5 11.5	19.0 15.5	26.0 22.5	36.0 33.5
Wide strip toughness [AS3706.2a]	Typical MARV	KJ/m ²	2.6 1.9	3.6 2.3	4.8 3.1	6.5 4.5	9.0 6.7
Grab Strength [AS3706.2]	Typical Characteristic Specifications	N	700 650 500	940 875 700	1,220 1,130 900	1,840 1,660 1,200	2,480 2,280 1,600
Trapezoidal Tear Strength [AS3706.3]	Typical Characteristic Specifications	N	280 255 180	380 345 250	485 450 350	660 615 450	885 840 650
CBR Burst Strength [AS3706.4]	Typical Characteristic MARV	KN	1,980 1,810 1,560	2,640 2,470 2,220	3,530 3,250 2,860	4,950 4,740 4,450	6,710 6,440 6,050
G Rating [Austroads]	Typical Characteristic Specifications	Austroads	1,250 1,160 900	1,900 1,760 1,350	2,540 2,360 2,000	3,850 3,620 3,000	5,400 5,090 4,500

Hydraulic Properties

Flow Rate @100mm head [AS3706.9]	Characteristic Specifications	L/m ² /s	250 50	200 50	190 50	180 50	110 50
Permittivity [AS3706.9]	Characteristic Specifications	Sec ⁻¹	2.5 0.5	2.0 0.5	1.9 0.5	1.8 0.5	1.1 0.5
Apparent Opening Size O ₉₅ [AS3706.7]	Characteristic Specifications	µm	120 120	120 120	120 120	100 120	90 120

Endurance Properties

UV Resitance [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
Roll Length	-	m	Determined according to the customized specifications				
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 characteristics, 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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