

Multi-tex

Non-woven continuous filament needle punched PET Geotextile

									
Multi-tex Geotextile Grades (CF PET non-woven geotextiles available 120gsm to 1,200gsm)									
Mechanical Properties	Test Method	Units	AS150A	AS200B	AS270C	AS400D	AS500E	AS600	AS700
Wide Strip Tensile Strength MD	AS3706.2	kN/m	11	14	17	26	35	40	49
Wide Strip Tensile Strength CD	AS3706.2	kN/m	9	11	14	22	30	38	42
Elongation @ Maximum Strength MD / CD	AS3706.2	%	>45/>45	>50/>50	>50/>50	>60/>60	>60/>60	>60/>60	>60/>60
Trapezoidal Tear Strength MD	AS3706.3	N	290	330	430	600	825	1000	1100
Trapezoidal Tear Strength TD	AS3706.3	N	260	310	400	550	775	900	950
CBR Burst Strength	AS3706.4	N	1,900	2,200	2,750	4,300	6,000	7,200	8,700
Drop Cone H50	AS3706.5	mm	1,200	1,420	1,850	2,600	4,000	5,000	5,700
G-Rating (calculated from CBR & Drop Cone)	Austrroads		1,500	1,760	2,230	3,340	4,900	6,000	7,040
Grab Tensile Strength MD	AS3706.2	N	680	850	1,000	1,400	2,500	3,000	3,900
Grab Tensile Strength TD	AS3706.2	N	600	800	925	1,300	2,200	2,700	3,000
Elongation @ Maximum Strength MD / CD	AS3706.2	%	>45/>45	>50/>50	>50/>50	>60/>60	>60/>60	>60/>60	>60/>60
UV Resistance % Retained Strength (50% @ 672 hrs)	AS3706.11	%	> 50	> 50	> 50	> 50	> 50	> 50	> 50
UV Resistance % Retained Strength (500 hrs)	ASTM D4355	%	> 70	> 70	> 70	> 70	> 70	> 70	> 70
Hydraulic Properties									
Pore Size (EOS)	AS3706.7	microns	110	100	90	80	70	65	60
Nominal Flow Rate	AS3706.9	l/m ² /s	130	115	105	90	75	65	50
Permittivity	AS3706.9	s-1	1.3	1.2	1	0.9	0.75	0.65	0.5
Physical Properties									
Roll Sizes typically stocked		m x m	1x50 & 2x50	2x50	2x50				
		m x m	4x50	4x50	4x50	4x50	4x50		
		m x m	6x200	6x150	6x100	6x100	6x75	6x50	6x50
Multi-tex conforms to NZTA TNZ F/7 (2003)									
Geotextile Filtration Classes 1-4 and Strength Classes A to E			Strength Class	A	B	C	D	E	Exceeds NZTA Requirements
Trapezoidal Tear Strength Q Value	NZTA TNZ F/7	N	>180	>250	>350	>450	>650		
Grab Tensile Strength Q Value	NZTA TNZ F/7	N	>500	>700	>900	>1200	>1600		
G-Rating Q Value	NZTA TNZ F/7		>900	>1,350	>2,000	>3,000	>4,500		
		Filtration Classes			1 to 4				
Flow Rate	NZTA TNZ F/7	l/m ² /s	>50	>50	>50	>50	>50		
Pore Size (EOS)	NZTA TNZ F/7	microns	<180	<180	<180	<180	<180		
UV Resistance % Retained Strength (50% @ 672 hrs)	NZTA TNZ F/7	%	>50	>50	>50	>50	>50		

For guidance regarding geotextile usage, application & installation - refer to NZTA TNZ F/7 & Notes (2003)

Multi-tex is manufactured by TMP Geosynthetics® under ISO 9001 Certified Quality procedures and tested to Australian Standards to meet the requirements of NZTA TNZ F/7 (2003). GPIL conduct reference testing by independent third party laboratories for compliance monitoring. Values shown are characteristic "Q" values (mean minus 0.83 standard deviations) being a 95% confidence level tested in accordance with TNZ F/7 for strength class and filtration classes 1 to 4. Test properties shown above may be amended from time to time as part of continuous development. PET (polyester) geotextiles are unaffected by bacteria and fungi and are resistant to normal soil conditions. High alkaline or high pH conditions should be specifically site tested.

The information contained herein is intended as a general guide to the properties of the product and are not to be considered a design or fit for any particular purpose other than the applications shown in NZTA TNZ F/7 (2003). GPIL accept no liability for any loss or damage, or consequential damage, however arising, from the direct or indirect use or reliance on such information. The information presented herein and in any supporting documentation or that referenced to in any website is, to the best of our knowledge and belief, correct and is subject to periodic review and revision. The validity of information relative to all necessary engineering or any other conditions must be ascertained by a suitably qualified person. No warranty is either expressed or implied.



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