

## Civil Series - Nonwoven Geotextile

Product – Needle-punch Geotextile

Fiber Type – Synthetic Staple Fiber

Filtration-Separation-Protection

Mechanical Properties	Test Method	Unit	RM130	RM150	RM170	RM200	RM240	RM300	RM350	RM400	RM550
Grab Tensile Strength	ASTM D4632	N	401	445	535	711	802	911	1110	1330	1690
Grab Tensile Elongation	ASTM D4632	%	>50	>50	>50	>50	>50	>50	>50	>50	>50
Trapezoid Tear Strength	ASTM D4533	N	178	210	225	270	334	356	444	511	644
CBR Puncture Strength	ASTM D6241	N	1178	1368	1515	1820	2021	2380	3110	3780	4820
<b>Hydraulic Properties</b>											
Apparent Opening Size (AOS)*	ASTM D 4751	mm	0.30	0.30	0.21	0.21	0.21	0.18	0.15	0.15	0.15
Permittivity	ASTM D4491	Sec-1	2.0	2.0	1.7	1.5	1.5	1.4	1.2	1.0	0.7
Flow Rate	ASTM D 4491	L/min/m <sup>2</sup>	6095	6095	5005	4480	4075	4000	3252	3055	2035
Filtration Opening Size (FOS)	CAN148.1 No.1	µm	90-200	70-180	70-180	70-150	65-150	65-140	50-130	50-120	50-120
UV Resistance (at 500 hours)	ASTM D4355	% / 500 hr	70	70	70	70	70	70	70	70	70
Width x Length (FT)	15' – 12.5' – 10' – 7.5' – 6.2' – 5' – 4.2' – 3' x 300' – 360'										
Width x Length (M)	4.57m – 3.81m – 3.05m – 2.29m – 1.91m – 1.52m – 1.28m – 0.91m x 91.44m – 110m										

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