

## TMP GEOSYNTHETICS - Non-woven Geotextiles

### Introduction

- TMP Non-woven Geotextiles are needle-punched and made of polyester continuous filament fibers. The product can offer excellent water flow properties for drainage and other applications.

### Applications

- Filtration: when water passes from a fine-grained to a coarse grained layer, Non-woven Geotextiles can retain fine particles well. Such as when water flows from a sandy soil into a Geotextile wrapped gravel drain.
- Separation: to separate two layers of soil with different physical properties, such as the separation of road gravel from soft sub-base materials.
- Drainage: to drain liquid or gas from the plane of the fabric, which leads to draining or venting of the soil, such as the gas vent layer in a landfill cap.
- Reinforcement: to improve the load bearing capacity of a specific soil structure, such as the reinforcement of a retaining wall.

Specifications	Test Method	Unit	GT150N	GT200N	GT250N	GT300N	GT350N
■ Index Properties							
■ Color	-		White or Black				
■ Ultimate Tensile Strength, MD	ASTM D4595	kN/m	11	14	17	19	24
■ Ultimate Tensile Strength, TD	ASTM D4595	kN/m	10	12	15	17	21
■ Tensile Elongation	ASTM D4595	%	45	50	50	50	60
■ Grab Tensile Strength, MD	ASTM D4632	N	600	850	1000	1250	1450
■ Grab Tensile Strength, TD	ASTM D4632	N	550	700	900	1100	1250
■ Grab Elongation	ASTM D4632	%	45	50	50	50	60
■ Trapezoid Tear Strength, MD	ASTM D4533	N	300	350	430	490	540
■ Trapezoid Tear Strength, TD	ASTM D4533	N	270	330	400	450	510
■ CBR Puncture Strength	ASTM D6241	N	1800	2300	2700	3200	3600
■ Apparent Opening Size O <sub>90</sub>	ASTM D4751	mm	0.11	0.11	0.10	0.09	0.09
■ Water Flow Q <sub>100</sub>	ASTM D4491	L/m <sup>2</sup> /s	235	220	200	185	165
■ U.V. Resistance	ASTM D4355	% @ 500h	70	70	70	70	70
■ Weight	ASTM D5261	g/m <sup>2</sup>	150	200	250	300	350
■ Thickness	ASTM D5199	mm	1.8	2.3	2.9	3.2	3.6
■ Roll Width	-	m	6	6	6	6	6
■ Roll Length	-	m	200	150	100	100	100

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Specifications	Test Method	Unit	GT400N	GT450N	GT500N	GT600N
■ Index Properties						
■ Color	-				White or Black	
■ Ultimate Tensile Strength, MD	ASTM D4595	kN/m	27	30	37	41
■ Ultimate Tensile Strength, TD	ASTM D4595	kN/m	25	28	34	38
■ Tensile Elongation	ASTM D4595	%	60	60	60	60
■ Grab Tensile Strength, MD	ASTM D4632	N	1700	1900	2100	2500
■ Grab Tensile Strength, TD	ASTM D4632	N	1450	1600	1800	2150
■ Grab Elongation	ASTM D4632	%	60	60	60	60
■ Trapezoid Tear Strength, MD	ASTM D4533	N	630	710	770	920
■ Trapezoid Tear Strength, TD	ASTM D4533	N	610	690	750	900
■ CBR Puncture Strength	ASTM D6241	N	4400	4800	5800	6900
■ Apparent Opening Size O <sub>90</sub>	ASTM D4751	mm	0.08	0.08	0.08	0.08
■ Water Flow Q <sub>100</sub>	ASTM D4491	L/m <sup>2</sup> /s	125	110	90	80
■ U.V. Resistance	ASTM D4355	% @ 500h	70	70	70	70
■ Weight	ASTM D5261	g/m <sup>2</sup>	400	450	500	600
■ Thickness	ASTM D5199	mm	3.9	4.2	4.4	4.8
■ Roll Width	-	m	6	6	6	6
■ Roll Length	-	m	80	80	50	50