No.32 Jinniushan Road, Taian Shandong, P.R. China 271000

TEL/FAX: +86 538 8560690

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	GT100N	GT150N	GT200N	GT250N	GT300N		
Index Properties									
Color	-		White or Black						
Ultimate Tensile Strength, MD	ASTM D4595	kN/m	7	11	14	17	19		
Ultimate Tensile Strength, TD	ASTM D4595	kN/m	6	10	12	15	17		
Tensile Elongation	ASTM D4595	%	45	45	50	50	50		
Grab Tensile Strength, MD	ASTM D4632	N	400	600	850	1000	1250		
Grab Tensile Strength, TD	ASTM D4632	N	350	550	700	900	1100		
Grab Elongation	ASTM D4632	%	45	45	50	50	50		
Trapezoid Tear Strength, MD	ASTM D4533	N	160	300	350	430	490		
Trapezoid Tear Strength, TD	ASTM D4533	N	140	270	330	400	450		
CBR Puncture Strength	ASTM D6241	N	1000	1800	2300	2700	3200		
Apparent Opening Size O ₉₀	ASTM D4751	mm	0.12	0.11	0.11	0.10	0.09		
Water Flow Q ₁₀₀	ASTM D4491	L/m ² /s	250	235	220	200	185		
Weight	ASTM D5261	g/m ²	100	150	200	250	300		
Thickness	ASTM D5199	mm	1.2	1.8	2.3	2.9	3.2		
Roll Width	-	m	6	6	6	6	6		
Roll Length	-	m	300	200	150	100	100		

No.32 Jinniushan Road, Taian Shandong, P.R. China 271000 TEL/FAX: +86 538 8560690

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	GT350N	GT400N	GT450N	GT500N	GT600N		
■ Index Properties									
■ Color	-		White or Black						
■ Ultimate Tensile Strength, MD	ASTM D4595	kN/m	24	27	30	37	41		
■ Ultimate Tensile Strength, TD	ASTM D4595	kN/m	21	25	28	34	38		
■ Tensile Elongation	ASTM D4595	%	60	60	60	60	60		
■ Grab Tensile Strength, MD	ASTM D4632	N	1450	1700	1900	2100	2500		
■ Grab Tensile Strength, TD	ASTM D4632	N	1250	1450	1600	1800	2150		
■ Grab Elongation	ASTM D4632	%	60	60	60	60	60		
■ Trapezoid Tear Strength, MD	ASTM D4533	N	540	630	710	770	920		
■ Trapezoid Tear Strength, TD	ASTM D4533	N	510	610	690	750	900		
■ CBR Puncture Strength	ASTM D6241	N	3600	4400	4800	5800	6900		
■ Apparent Opening Size O ₉₀	ASTM D4751	mm	0.09	0.08	0.08	0.08	0.08		
■ Water Flow Q ₁₀₀	ASTM D4491	L/m²/s	165	125	110	90	80		
■ Weight	ASTM D5261	g/m²	350	400	450	500	600		
■ Thickness	ASTM D5199	mm	3.6	3.9	4.2	4.4	4.8		
■ Roll Width	-	m	6	6	6	6	6		
■ Roll Length	-	m	100	80	80	50	50		