MARUTI WOVEN GEOTEXTILE

They are characterized by high tensile strengths at low elongation, hence yielding high tensile modulus. These woven geotextiles are dimensionally stable, resistant to Ultra Violet (UV) degradation and are engineered to be mechanically and chemically stable in aggressive soil environments and are also resistant to biological environments normally found in soil. These are suitable for applications involving the function of reinforcement.

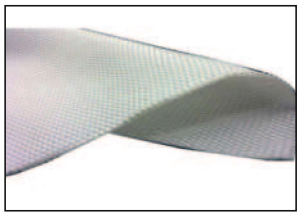
PP WOVEN GEOTEXTILE is a cost effective solution for soil separator, stabilization, filtration, erosion control and marine protection. It is also resistant to mildew, fungus, and chemicals normally found in soil. Its protecting functions are not affected by ultraviolet ray and other environmental factors, and as a protection, this material needs not to be buried with soil.

STRENGTHS

- Strong and Durable.
- Stable Performance.
- Resistant to Chemical Substances.
- Resistant to Heat.
- Resistant to Ultraviolet Ray.
- Resistant to Micro Organism and Insects.

TYPICAL APPLICATION

- Coastal, River & Flood Protection Works.
- Roads and Railways.
- Retaining structures.
- Canals.
- Water and sludge containment.



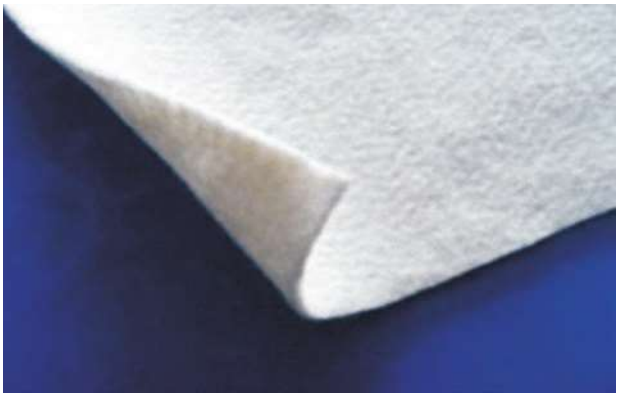
TECHNICAL SPECIFICATIONS

Properties	Test Method	Unit	MGTW- 300	MGTW- 400
Tensile Strength	EN-ISO-10319 (MD)	knN/m	≥300	≥400
	EN-ISO-10319 (CD)	kN/m	≥50	≥50
Strain at tensile strength	EN-ISO-10319 (MD)	%	10±2	10±2
	EN-ISO-10319 (CD)	%	10±2	10±2
CBR (Puncture Resistance)	EN-ISO-12236	N	≥8500	≥9500
Cone Drop (Dynamic Perforation)	EN-ISO-13443	mm	≤10	≤8
Water Permeability	EN-ISO-11058	$1/m^2/S$	≥4	≥4
Apparent Opening Size	EN-ISO-12956	m	≤150	≤200
GSM	ASTM D5621	G/M^2	300	400

MARUTI NON-WOVEN GEOTEXTILE

Non-Woven Geotextile are manufactured by placing and orienting the filaments or fibers onto a conveyar belt, which are subsequently bonded by needle punching, the high strength Non-Woven Geotextile provides maximum slop support, stabilzation and erosion control Non-Woven Geotextile provides on effective solution to solve the problem of constructing a stable granular layer over soft foundation soils.

(A) Application



- Pavement.
- Sepration & Filtration.
- Drainage & reinforcement.
- Coastral, River & Flood protection.
- Roads, Railways, Canal, Drums & Bank protection.
- Retaining structures.
- Water & sludge containment.

(B) Description

- Pore size suits soil to prevent the ingress of fines.
- Ongoing performance without blocking.

Maruti Geocomposite satisfies the above criteria to stand the test of time. Our products have been used in building and construction projects across the world for several years.

(C) Benefits Of Using Maruti Geocomposites

- Easy to handle, lightweight.
- Lower installation and material costs.
- Cost-effective alternative to traditional materials.
- Easy and quick installation.
- High-volume flow paths for liquids and gases.

Typical Applications Of Maruti Geocomposites

- Highways: Vertical drains that intercept lateral ground water flow. Modern fin drains reduce backfill quantities, installation time and excavation. Increased slope stability from in-slope drainage.
- Bridge abutments and retaining walls: avoid backfill saturation, reduce pore water pressure.
- Engineered landfills: Meet requirements of high compressive strength and long-term chemical resistance.
- Tunnels: Ground-water-seepage interception between rock face and the tunnel lining.

  Buried structures: Horizontal and vertical drains for culverts, basements, underground parking ramps, resevoirs, and more.

(D) INSTALLATION




(E) TECHNICAL DATA SHEET

		Product Name											
		MARUTI GEOTEXTILE FABRICS											
Properties	Test Method	Unit	MGT-100	MGT-120	MGT-140	MGT-180	MGT-200	MGT-250	MGT-280	MGT-300	MGT-400	MGT-450	MGT-500
CBR Puncture	EN ISO 12236	N	1000	1200	1400	1800	2000	2500	2800	3200	3700	4200	4700
Puncture Strength	ASTM D 4833	N	190	240	280	330	420	550	690	700	850	950	1050
Dynamic Puncture	EN 918	mm	32	28	26	20	18	14	14	12	9	8	7
Mullen Burst	ASTM D 3786	kPa	890	1100	1260	1930	2000	2450	2670	3070	3580	4000	4480
Flow Rate (10cm Head)	BS 6906 Part 3	l/m2/s	240	200	190	120	100	95	90	85	75	55	50
Permeability	EN ISO 11058	10-3ms-1	95	90	85	80	75	68	65	60	55	53	51
Transmissivity(2kn/m2)	ASTM D 4716	l/m/h	100	120	140	160	170	185	190	200	200	220	235
Pore Size (09o)	EN ISO 12956	micron	106	106	100	90	85	82	75	75	70	70	65
Grab Strength (CD)	ASTM D 4632	N	250	320	500	600	700	900	1000	1100	1300	1500	2000
Min. Grab Elongation	ASTM D 4632	%	60	60	60	70	70	70	70	70	70	70	70
Tear Strength	ASTM D 4533	N	130	150	180	200	250	350	375	400	440	500	550
Thickness(2kn/m2)	ASTM D 5199	mm	0.9	1	1.2	1.7	1.6	1.8	2	2.2	2.5	2.8	3.2