

GEOTEXTILE NON WOVEN POLYESTER



Product Information

TME Polyester nonwoven geotextile is a kind of infiltrated geotechnical synthetic material formed by different equipment and processes with different equipment and processes.

Polyester short fiber nonwoven geotextile generally has a width of 1-6 meters . Polyester short fiber nonwoven geotextile has a certain degree of tear resistance and deformation adaptability due to its soft fibers, as well as good flat drainage ability, which can play a good role in filtering, isolation, reinforcement, protection, and other functions.

Polyester short fiber non-woven geotextile is suitable for soil filtration, soil separation, soil reinforcement and other engineering projects.

Use & Application

Unlike woven fabrics, non-woven geotextiles are manufactured through a mechanical interlocking process (needle-punching) or thermal bonding of polypropylene (PP) or polyester (PET) fibers.

This unique random fiber structure creating a fabric with excellent permeability and high elongation, making them the industry standard for filtration (allowing water pass while holding back soil fines) and separation (preventing the mixing of dissimilar soil layers).

Thermal insulation and moisture protection of basic pavement.

Isolation filtration and seepage materials for soil layer separation in drainage work.

Anti erosion materials for embankments, river channels, and slope protection buildings, as well as reinforcement materials for railway, highway, and airport roadbeds.

Reinforcement materials for road construction in swampy areas.

Anti cracking materials for asphalt pavement.

Plant frost and frost resistant insulation materials in landscaping. The effect is better when used in combination with geotextile.

Benefits

- Available in both short-fiber (staple) and continuous filament varieties to match specific project tensile requirements.
- High permeability ensuring effective subsurface drainage.
- Excellent resistance to naturally occurring soil chemicals, UV degradation, and biological clogging.
- Suitable for applications ranging from road subgrade stabilization and drains to landfill lining protection and erosion control.





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PROPERTIES	STANDARD		150	200	250	300	350	400	450	500	600	700	800	1000
WEIGHT	TS EN ISO 9864	g/m2	150	200	250	300	350	400	450	500	600	700	800	1000
TENSILE STRENGTH (MD)	TS EN ISO 10319	kN/m	4	6	8	10	12	14	15	16	19	23	27	32
TENSILE STRENGTH (CD)			4,8	6,3	8,7	11,6	14	16	18	19	23	25	29	36
ELONGATION AT BREAK (MD)	TS EN ISO 10319	%	60-80											
ELONGATION AT BREAK (CD)														
STATIC PUNCTURE (CBR)	TS EN ISO 12236	N	1200	1400	1500	1700	1800	2000	2200	2500	3500	4000	5900	7500
DYNAMIC CONE DROP	TS EN ISO 13433	mm	50	40	35	30	25	22	18	16	14	13	10	8
PERMEABILITY (Water Flow at 50 mm WH)	TS EN ISO 11058	m/sn	1,15	1,00	0,75	0,50	0,40	0,35	0,30	0,25	0,20	0,15	0,10	0,08
THICKNESS	TS EN ISO 9863-2	mm	1,2	1,5	2,1	2,5	2,7	3,0	3,2	4,1	4,5	5,2	6,5	7,0
WIDTH		m		1-6	1-6	1-6	1-6	1-6	1-6	1-6	1-6	1-6	1-6	1-6
Tolerance +_5%														

