

# CONFORMITY OF PRODUCT

## TME GeoTech Needle Punched Geotextile



### Purpose of Usage

*Filtration, Separation, Protection, Drainage, Soil.*

*Stabilization*

### Application Locations

*Road and highway construction, Railway infrastructure, Drainage systems, Landfill engineering, Coastal protection projects, Erosion control systems, Foundation stabilization, Retaining wall systems*

NAME	TEST METHOD	UNITS	TOLERANCE	TME-NPN90	TME-NPN100	TME-NPN120	TME-NPN140	TME-NPN150	TME-NPN200	TME-NPN250	TME-NPN300	TME-NPN350	TME-NPN400	TME-NPN500	TME-NPN600	TME-NPN700	TME-NPN800	TME-NPN900	TME-NPN1000	TME-NPN1200
Weight	EN ISO 9864	g/m <sup>2</sup>	± 10 %	90	100	120	140	150	200	250	300	350	400	500	600	700	800	900	1000	1200
Tensile strength - MD	EN ISO 10319	KN/M	± 10 %	3.0	3.4	4.2	5.0	5.4	7.1	8.8	12.0	14.0	16.0	20.0	24.0	28.0	32.0	36.0	40.0	48.0
Tensile strength - CD	EN ISO 10319	KN/M	± 10 %	3.6	4.0	5.0	6.0	6.4	8.5	10.6	14.4	16.8	19.2	24.0	28.8	33.6	38.4	43.2	48.0	58.0
Tensile elongation - (MD/CD)	EN ISO 10319	%	± 25 %	50/60	50/60	50/60	50/60	50/60	50/60	50/60	60/65	60/65	60/65	60/65	60/65	60/65	60/65	60/65	60/65	60/70
CBR puncture resistance	EN ISO 12236	KN	± 15 %	0.735	0.800	0.980	1150	1250	1650	2045	2455	2850	3250	4050	4860	5670	6480	7300	8100	9700
Grab elongation- (MD/CD)	ASTM D 4632	%	± 25 %	50/60	50/60	50/60	50/60	50/60	50/60	50/60	60/65	60/65	60/65	60/65	60/65	60/65	60/65	60/65	60/65	60/70
Tear strength	ASTM D 4533	N	± 15 %	90	100	120	140	150	200	250	280	330	380	480	580	680	760	860	960	1160
Index puncture	ASTM D 4833	N	± 15 %	160	180	220	260	320	420	500	600	700	800	900	1000	1100	1200	1300	1400	1600
Cone drop test	EN ISO 13433	mm	± 15 %	35	34	30	28	26	24	22	18	14	10	8	6	4	2	1	1	0
Permeability	EN ISO 11058	Lt/m <sup>2</sup> /sec	± 30 %	100	95	90	90	85	80	75	65	60	55	50	40	35	30	28	26	20

Needle Punched Geotextiles are manufactured from high-quality polypropylene staple fibers that are mechanically bonded through a needle punching process. This production method creates a durable, flexible, and highly permeable geosynthetic fabric suitable for a wide range of civil engineering and environmental applications.