

TECHNICAL DATASHEET

NP1000 NON WOVEN GEOTEXTILE

PRODUCT DESCRIPTION

Nonwoven geotextile manufactured from UV stabilised, high tenacity, virgin polypropylene fibres that have been both mechanically and thermally bonded to provide high strength and excellent abrasion characteristics.

APPLICATION: Typical uses for NP1000 include ground stabilisation (between the sub-base and subgrade) and around drainage materials

NP1000 filter/separator is used extensively in the construction of:

- Paved and unpaved roads
- Railways
- Car parks and hard-standing
- Cycleways and footpaths
- SuDs installations



PROPERTY	UNITS	NP1000	STANDARD
MECHANICAL PROPERTIES (MEAN VALUES)			
TENSILE STRENGTH	kN/m	8 [-10%]	EN ISO 10319
TENSILE ELONGATION	%	60 [±20%]	EN ISO 10319
CBR PUNCTURE RESISTANCE	kN	1.5 [-10%]	EN ISO 12236
CONE DROP	mm	42 [+8]	EN ISO 13433
HYDRAULIC PROPERTIES (TYPICAL VALUES)			
PERMEABILITY (H50)	l/m ² .s	100 [-30]	EN ISO 11058
OPENING SIZE (090)	µm	95 [+20]	EN ISO 12956
ROLL DIMENSIONS			
WIDTH	m	4.5	
LENGTH	m	100	

FEATURES:

Engineered to provide high strength and high elongation at break to ensure excellent resistance to damage during construction. NP1000 is manufactured to performance properties, not weight, sufficient fibre will be added to achieve these properties.

Manufactured from high tenacity UV stabilised virgin polypropylene fibres which have been heavily drawn to ensure excellent long term durability in all soil types.

Manufactured using a randomly orientated web to provide completely isotropic properties, ensuring that high strength is not limited to a single direction. Excellent uniformity with high permeability and low pore size for soil filtration.

This product is predicted to be durable for more than 100 years in solid with a pH in the range 2 to 14 and with a temperature of less than 25°C.

Chemical resistance - Polypropylene is affected by the chemicals which normally exist in soils.

Biological resistance - Polypropylene is not nutrients for micro-organisms and do not provide nourishment for animals & insects.

PACKAGING & IDENTIFICATION: NP1000 is supplied on cardboard cores and wrapped in Polyethylene sheeting with identification labels in accordance with ISO 10320.

STORAGE: The rolls of geotextile shall be stored on stable/level ground and stacked not more than five rolls high and no other materials shall be stacked on top. NP1000 is delivered to site in polypropylene wrapping to protect against the effects of ultra-violet radiation. It is recommended that the products remain wrapped until their installation. Once unwrapped, the products should be completely covered with fill within 14 days to avoid exposure to UV radiation. All materials should be stored in accordance with good health and safety practice and in accordance with local laws.

NOTES:

- a) Reported values are arithmetic mean values unless otherwise stated, A set of test results shall be those results derived from specimens cut from one sample and taken across the full width of the roll. For sampling, EN ISO 9862 should be applied, i.e. samples should be taken not less than 5m from the end of the roll in machine direction and over the whole width in the cross machine direction. The location of the sample should be described exactly. Applied tolerances are based on 95% confidence limits, this is the value below which not more than 5% of the test results may be expected to fall. This represents the value at 1.645 standard deviations below the mean value. For evaluation of conformance, statistical procedure should be used in line with section 5.2 of CEN/TR 15019:2004. The tolerance value provided for tensile elongation is based on an absolute value; e.g. 60% ±20% = 40%-80%.
- b) Reported values are based on durability testing on the lowest grade product within a family, no loss indicates that there is no notable effect due to exposure, laboratory sample variation may identify a small change in properties.

REGISTERED OFFICE ADDRESS

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1. TCS Geotechnics is a trading name of Technical Civils Solutions Ltd
2. TCS Geotechnics Ltd reserves the right to alter product specifications without prior notice.
3. It is the responsibility of all users to satisfy themselves that the above data is current.
4. The above figures are average values obtained from testing to current EN ISO standards
5. TCS Ltd cannot accept responsibility for the performance of these products as the conditions of use are beyond our control.
6. Installation details are available on request.

TNW
NON WOVEN GEOTEXTILE

