

TECHNICAL DATASHEET

TNW1000 NON WOVEN GEOTEXTILE

PRODUCT DESCRIPTION

A UV stabilized, needle punched, nonwoven geotextile produced from 100% polypropylene staple fibers.

USES & FUNCTIONS

Used in many civil engineering and building applications. Designed to offer filtration and separation functions.

Typical applications for TNW non woven geotextiles include:

- As a general purpose separator for use under site access roads and areas of hardstanding.
- As a separation and strengthening layer under new roadways, car parks, industrial units etc.
- As a filter surround in the construction of a French drain or granular drainage blanket.
- For separation: to prevent the intermixing of dissimilar soil layers.
- For filtration: to allow the passage of fluids whilst preventing the uncontrolled passage of soil.



PROPERTY		STANDARD	UNITS	VALUE	TNW1000
MECHANICAL					
UNIT TENSILE STRENGTH (MD/CD)		EN 10319	kN/m	AVERAGE	6/6
TENSILE ELONGATION (MD/CD)		EN 10319	%	AVERAGE	36/42
RESISTANCE TO STATIC PUNCTURE		EN ISO 12236	N	AVERAGE	1050
DYNAMIC PERFORATION RESISTANCE		EN ISO 13433	mm	AVERAGE	48
HYDRAULIC					
CHARACTERISTICS OPENING SIZE (O_{90})		EN ISO 12956	μm	AVERAGE	128
WATER PERMEABILITY $V_{I_{H50}}$		EN ISO 11058	mm/sec	AVERAGE	144
WATER FLOW RATE		EN ISO 11058	$l/(m^2\text{-sec})$	AVERAGE	144
WATER FLOW CAPACITY IN THE PLANE (MD/CD)	HG 1.0 AT 20kPa	EN ISO 12958	$10^{-4}l/(m\text{-sec})$	AVERAGE	-
	HG 1.0 AT 100kPa				-
	HG 1.0 AT 200kPa				-
ENDURANCE					
WEATHERING RESISTANCE		EN 12224	%RETAIN STRENGTH	AVERAGE	75
RESISTANCE TO LIQUIDS - ACID		EN 14030	%RETAIN STRENGTH	AVERAGE	90
RESISTANCE TO LIQUIDS - ALKALINE		EN 14030	%RETAIN STRENGTH	AVERAGE	90
OXIDATION RESISTANCE		EN ISO 13438	%RETAIN STRENGTH	AVERAGE	85/90
RESISTANCE TO SOIL BURIAL		EN 12225	%RETAIN STRENGTH	AVERAGE	90
PHYSICAL					
MASS/UNIT AREA		EN 9864	gr/m^2	AVERAGE	80
THICKNESS (2kPa)		EN 9863-1	mm	AVERAGE	0.7
STANDARD PACKING					
ROLL WIDTH		MEASURED	m	TYPICAL	4.5
ROLL LENGTH		MEASURED	m	TYPICAL	100

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.
7. MD...Machine direction CD...Cross direction