

TECHNICAL DATASHEET

TERRAM STANDARD GEOTEXTILE GT

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.

Engineered to provide high strength and high elongation at break to ensure excellent resistance to damage during construction. Terram standard geotextiles are 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. with temperature of less than 25°C.



PRODUCT GRADE			T700 GT	T1000 GT	T1300 GT	T1500 GT	T2000 GT	T3000 GT	T4000 GT
MECHANICAL PROPERTIES (MEAN VALUES)									
TENSILE STRENGTH	EN ISO 10319	kN/m	6.0	8.0	10.5	12.5	14.5	18.0	22.0
TENSILE ELONGATION	EN ISO 10319	%	60	60	60	60	60	60	60
CBR PUNTURE RESISTANCE	EN ISO 12236	N	1050	1500	2000	2250	2750	3250	4300
CONE DROP	EN ISO 13433	mm	42	38	34	32	26	24	22
HYDRAULIC PROPERTIES (MEAN VALUES)									
PERMEABILITY (H50)	EN ISO 11058	l/m ² s	100	90	75	65	55	50	30
PORE SIZE MEAN AOS	EN ISO 12956	µm	95	75	65	65	65	60	60
PHYSICAL PROPERTIES (TYPICAL VALUES)									
THICKNESS AT 2kPa	EN ISO 9863-1	mm	0.9	1.1	1.4	1.6	1.7	1.8	2.0
ROLL DIMENSIONS (2)									
ROLL WIDTH		m	4.5	4.5	4.5	4.5	4.5	4.5	4.5
ROLL LENGTH		m	150	100	100	100	100	100	50
ROLL WEIGHT		kg	65	60	75	85	100	120	80

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.

DURABILITY

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

CHEMICAL RESISTANCE

Polypropylene and polyethylene are unaffected by the chemicals which normally exist in soils.

BIOLOGICAL RESISTANCE

Polypropylene and polyethylene are not nutrients for micro-organisms and do not provide nourishment for animals & insects.

UV EXPOSURE

TCS Geotechnics' products are delivered to site in polyethylene 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.

Versions of most products can be manufactured with enhanced UV performance by incorporating stabilisers. These versions carry the suffix UV. The remaining properties are identical to the corresponding standard grade. Adequate precautions should always be taken to protect all products from UV radiation to achieve the stated durability.

Notes: 1. Refer to TCS for when simple overlaps are required for subsequent and adjacent roll lengths. However, pegging, sewing, stapling, or gluing can also be used depending upon the application, the sub-grade conditions. The loading, the convenience, and the cost.

2. These figures relate to standard product weights and roll sizes. Other weights, sizes and colours may be available on request. For further information please contact TCS Geotechnics