

Product Data Sheet

Standard Geotextiles

PDS033 Issue 11—May 2022

DESCRIPTION:

Nonwoven geotextile manufactured from UV stabilised, high tenacity, virgin polypropylene fibres that have been both mechanically and thermally bonded to provide a highly permeable yet durable separation and filtration layer.

APPLICATIONS:

With over 50 years of unrivalled expertise and experience, Terram standard geotextiles are the original nonwoven geotextiles for separation and filtration applications.

Typical uses include the prevention of intermixing of sub-base and subgrade layers, drainage and bedding materials. Terram filters/separators are used extensively in the construction of:

- Paved and unpaved roads
- Railways
- Car parks and hardstandings
- Cycleways and footpaths
- Sustainable Drainage Systems (SuDS)

FEATURES & BENEFITS:

- Manufactured from inert high tenacity virgin polypropylene fibres giving excellent long term durability in all soil types.
- High static and dynamic puncture resistance ensures a low risk of damage during construction.
- Random orientated web with isotropic properties provide the same strength, permeability and filtration in all directions.
- High elongation at break maintains separation and filtration function under load particularly in soft and variable ground conditions.



APPROVAL:

Network Rail PADS certificate numbers; T1000 057/100703, T2000 57/100705, T3000 57/100706 (4.5m wide x 100m long rolls) and T4000 057/100709 (4.5m wide x 50m long rolls).



INTENDED USE/FUNCTION:



INTENDED APPLICATION:



PROPERTIES	Test Method	Unit	Mean Value								
			T700	T1000	T1000 Orange	T1300	T1500	T2000	T3000	T4000	T4500
MECHANICAL	BS8661 classification profile		1	1	1	2	3	3	3	3	
Tensile Strength	EN ISO 10319	kN/m	6	8	8	10	12.5	14.5	18	22	30
Tensile Elongation	EN ISO 10319	%	60	60	60	60	60	60	60	60	60
CBR Puncture Resistance	EN ISO 12236	N	1050	1500	1500	2000	2250	2750	3250	4300	5350
Cone Drop	EN ISO 13433	mm	42	38	38	34	32	26	24	22	14
HYDRAULIC											
Pore Size - Mean AOS	EN ISO 12956	µm	95	90	90	65	65	65	60	60	60
Permeability—(H50)	EN ISO 11058	l/m ² s	100	90	90	65	65	55	50	30	30
DURABILITY											
Weathering (UV Exposure)	EN 12224	Days	30	30	30	30	30	30	30	30	30
Combined ageing (Oxidation, temperature & moisture)	EN ISO 13438	Service Life (Years)	50	100	100	100	100	100	100	100	100
MATERIAL DIMENSIONS											
Standard Roll Length		m	150	100	100	100	100	100	100	50	50
Standard Roll Width		m	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Maximum Roll Width		m	6	6	6	6	6	6	6	6	6
Gross Roll Weight (Nominal)		kg	40	54	54	70	78	94	112	74	90

PACKAGING & IDENTIFICATION

Terram Standard Geotextiles are 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. The rolls can be stored outdoors when packaged, but should be protected from exposure to UV. All materials should be stored in accordance with good health and safety practice and in accordance with local laws. For additional information please refer to Terram Geotextiles MSDS.

QUALITY

Terram Standard Geotextiles are supplied having met internal quality requirements in accordance with our Quality Management system which is certified to BS EN ISO 9001:2015.

NOTES

Reported values are arithmetic mean values unless otherwise stated. For further details on physical parameters please refer to the individual Declaration of Performance certificates available for download from www.terram.com

Reported values related to durability testing are generally based on the lowest grade product within a family.

A Nominal value indicates that the value is not part of the performance specification and is provided for guidance only.

Gross roll weight is based on standard roll dimensions and is provided is for lifting guidance only, it does not form part of quality control procedures.

ADDITIONAL INFORMATION

Refer to the Terram Jointing Methods (downloadable from www.terram.com) 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.

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 Terram Technical Support.

How else can we help? Get in touch with us

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