Product Data Sheet

PW9 Robust Trackbed Separator

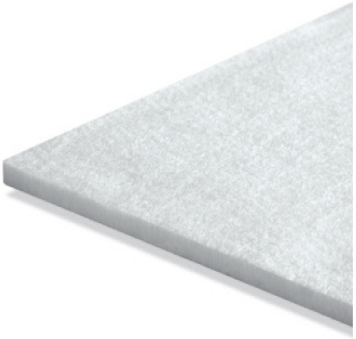
TERRAM
Geosynthetics you can trust

PDS028 Issue 4—June 2021

DESCRIPTION:

Nonwoven geotextile trackbed robust separator manufactured from UV stabilised, high tenacity, virgin polypropylene fibres that have been both mechanically and thermally bonded to provide high strength, very high abrasion and puncture resistant characteristics.

APPLICATION:



With over 50 years of unrivalled expertise and experience, Terram geotextiles are the original nonwoven geotextiles for separation and filtration applications. Terram PW9 robust filter/separator is designed to maintain separation between the adjacent sand/sub-grade and ballast layers, stops minor subgrade erosion within the trackbed, preventing the upward movement of fine sub-grade particles and the intermixing of ballast with the blanket. Suitable for use in the following ground conditions:-

- Good quality granular formation with low (<15%) fines content.
- Good quality granular formation with high (>10% weight) coarse (>14mm) particle content (abrasive materials).
- Thin sand blanket layer (50mm to 100mm) to prevent sub-grade erosion.
- With a separate ballast reinforcing geogrid placed on top of PW9.

Network Rail PA05/05860
Network Rail 'Product Accepted'

FEATURES & BENEFITS:

- Very high abrasion and puncture resistance ensuring long term durability in harsh formation conditions.
- Prevents subgrade erosion on thin sand formation layers eliminates the need to install a thicker sand blanket reducing renewal cost and time.
- High strength and elongation at break maintains separation from the formation and extends ballast life.

APPROVAL:

- Network Rail Product acceptance certificate PA05/05860.
- Complies with NR/SP/TRK/010:1996, NR/SP/TRK/9039:2005 and NR/SP/TRK/4239:2020.

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INTENDED USE/FUNCTIONS:

INTENDED APPLICATION:

MECHANICAL PROPERTIES	TEST METHOD	UNIT	MEAN VALUE				
Tensile Strength	EN ISO 10319	kN/m	52.5				
Tensile Elongation	EN ISO 10319	%	60				
CBR Puncture Resistance	EN ISO 12236	kN	9.0				
Cone Drop	EN ISO 13433	mm	2				
HYDRAULIC PROPERTIES							
Pore Size - Mean AOS	EN ISO 12956	µm	60				
Permeability	EN ISO 11058	Litres/m²s	25				
DURABILITY PROPERTIES							
Weathering (UV Exposure)	EN 12224	Days	30				
Combined ageing (Oxidation, temperature & moisture)	EN ISO 13438	Service Life (Yrs)	100				
Abrasion resistance	EN ISO 13427		>80% retained strength				
PHYSCIAL PROPERTIES							
Thickness (Nominal)	EN ISO 9863-1	mm	4.0				
MATERIAL DIMENSIONS							
Width		m	2.0	3.9	3.9	4.0	4.0
Length		m	25	25	50	25	100
Gross Roll Weight (Nominal)		kg	42	78	156	80	320
Network Rail PADS (Parts and Drawings System) Item Code			0057/072428	0057/072411	057/072422	0057/072441	0057/072427

PACKAGING & IDENTIFICATION Terram geosynthetics are supplied on cardboard cores and wrapped in Polyethylene sheeting with identification labels in accordance with ISO 10320.

STORAGE The rolls of geosynthetics shall be stored on stable/ level ground and stacked not more than two 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 geosynthetics 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 weights are provided for lifting guidance only and does not form part of quality control.

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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