

TrackTex™ Anti-Pumping Geocomposite

Product Data Sheet

DESCRIPTION

TrackTex is a multilayer geocomposite consisting of a specialist micro-porous filter sandwiched between two thick nonwoven geotextile protectors.

APPLICATIONS

When deployed at the base of ballast, TrackTex prevents rainwater penetrating through to the underlying formation but allows upward movement of water whilst filtering any fine soil particles. TrackTex is an effective treatment for the repair and prevention of areas of trackbed suffering from severe subgrade erosion as a result of pumping failure.

PROPERTIES	TEST STANDARD	UNIT	MEAN VALUES
MECHANICAL PROPERTIES			
Static Puncture (CBR)	EN ISO 12236	kN	17
Tensile Strength (MD/CMD)	EN ISO 10319	kN/m	90
Tensile Elongation (MD/CMD)	EN ISO 10319	%	80
Cone Drop	EN ISO 11058	mm	0
FILTER PROPERTIES			
Apparent Opening Size	EN ISO 12956	µm	> 10
Water Permeability ^V H50	EN ISO 11058	l/(m ² -S)	0
PHYSICAL PROPERTIES			
Thickness @ 2kPa (Nominal)	EN ISO 9863-1	mm	9
Carbon Black Content		N/A	1% active carbon black
Standard Color			Black
Polymer			100% virgin polypropylene
DURABILITY			
Weathering 50 MJ/m ² (1 month)	EN ISO 12224	N/A	>90% Retained Strength
Microbiological Resistance	EN ISO 12225		No Loss in Strength
Resistance to acids & alkalis	EN ISO 14030		No Loss in Strength
Oxidation at 112 days (100 yrs.)	EN ISO 13438		>90% Retained Strength
Resistance to Abrasion Under Ballast	N/A		Subjected to a loading cycle equivalent to 140 million gross tonnes of main line traffic below 0.3m of ballast in a full-scale testing facility measuring over 8m ² . At the end of the test, there were no visible signs of damage to the composite.

a) Mean values indicate the arithmetic mean derived from the samples taken for any one test as defined in the standard – usually an overall mean of five samples. Mean values are subject to tolerances based on 95% confidence limits as published on the product CE declaration of performance.

b) Nominal thickness values indicate an average manufacturing norm and not a controlled performance parameter.

c) MD: Machine Direction (longitudinal to the roll). CMD: Cross Machine Direction (across the roll).