Technical Data Sheet

LOTRAK® 100 GEOTEXTILES

green-tech
Plant • Protect • Enhance • Improve

Ground, Wind, Weed & Erosion Control

Geotextiles are used between the sub grade and sub base to prevent intermixing of expensive stone and aggregate within the soil, while providing ground stabilisation.

Designed to control particle movement of the soil, these separators prevent clogging while maintaining water flow by creating a bridging zone to promote natural soil filtration. The main purpose is to prevent the loss of construction gravel and aggregates into the underlying soil and/or subgrade.

Product Features

- Prevents the loss of construction aggregates into the underlying soil
- Demonstrates high tensile strength and CBR properties to offer protection
- A lightweight separator to help reduce carbon footprint - efficient & cost effective

Benefits

- Proven separator performance
- Superior strength and resistance
- High mechanical strength
- Good puncture resistance
- Reduced stone requirements

Test	Standard		Lotrak®					
Product			80	100	140	160	200	300
Tensile Strength (kN/m)	EN ISO 10319	MD	6	8	12	14	18	25
		CD	6	8	12	14	18	25
Elongation at Max. Load (%)	EN ISO 10319	MD	36	45	45	50	50	65
		CD	42	45	45	50	50	65
CBR Puncture Resistance (N)	EN ISO 12236		1050	1500	2000	2300	2900	4300
Cone Drop Penetration (mm)	EN 13433		48	36	26	23	18	13
Pore Size 90% Finer Than (microns)	EN ISO 12956		128	100	90	80	70	70
Water Permeability V_{H50}	EN ISO 11058		0.144	0.130	1.110	0.090	0.080	0.065
Water Flow Rate ($l/m^2/sec$)	EN ISO 11058		144	130	110	90	80	65
Effect of UV			Polypropylene (PP) contains UV inhibitor					
Roll Sizes (m)			4.5 x 100					
Roll Sizes (m)			100 & 300 - 4.5 x 100, 2.25 x 50, 2.25 x 25					

All products are manufactured under BS EN ISO 9001.

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Test	Standard		Lotrak®		
Product			Base	2300	2800
Tensile Strength (kN/m)	EN ISO 10319	MD CD	10 9	21 17	22 21
Elongation at Max. Load (%)	EN ISO 10319	MD CD	13 15	22 18	22 14
CBR Puncture Resistance (N)	EN ISO 12236		1500	2600	2800
Cone Drop Penetration (mm)	EN 13433		18	11	10
Pore Size 90% Finer Than (microns)	EN ISO 12956		300	180	270
Water Permeability V_{H50}	EN ISO 11058		0.010	0.022	0.020
Water Flow Rate (l/m²/sec)	EN ISO 11058		10	22	20
Effect of UV	Polypropylene (PP) contains UV inhibitor				
Roll Sizes (m)			4.5 x 100		
Roll Sizes (m)			Base - 4.5 x 10		

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