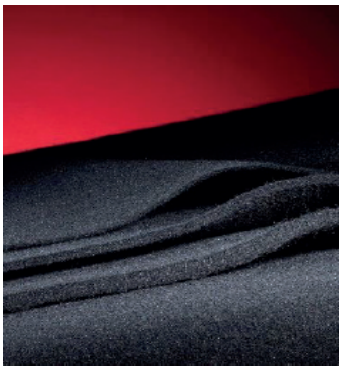
Specialist Geomembranes

Technical Data Sheet

Landflex™ G6000 Puncture Resistant Geotextile



Thick needlepunched nonwoven geotextile manufactured from 100% virgin polypropylene high tenacity fibres containing 1% active carbon black.

Typical applications for G6000 Geotextile include, but are not limited to:
- Membrane protection in landfill cells and cover systems
- Soil filtration and separation beneath rock armour in coastal defence
- Soil filtration within landfill cells
- Heavy duty soil filters in civil applications

- Optimised for maximum strength and performance – not mass
- Available in wide widths to allow for minimal construction costs – up to 6m
- Manufactured from a unique blend of high tenacity fibres providing class leading durability
- 100% virgin polypropylene fibres for guaranteed durability
- Carbon black for UV stability

Description	Test Method	Unit	Mean Values
Mechanical Properties			
Static Puncture (CBR)	EN ISO 12236	kN	6
Push Through Displacement		mm	65
Tensile Strength (MD/CMD)	EN ISO 10319	kN/m	35
Tensile Elongation (MD/CMD)		%	80
Cone Drop	EN ISO 13433	mm	4
Protection Efficiency	EN ISO 13719	kN/m^2	20
Filter Properties			
Apparent Opening Size	EN ISO 12956	µm	80
Water Permeability VH50	EN ISO 11058	$l/(m^2.s)$	55
Coefficient of Permeability		$m/s\ 10^{-3}$	5.7
Physical Properties			
Thickness @ 2kPa (nominal)	EN ISO 9863-1	mm	5.2
Carbon Black Content			1% Active carbon Black
Standard Colour			Black
Polymer			100% Virgin polypropylene

Notes:
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 Value (indicates an average manufacturing norm and not a controlled performance parameter).
c) MD: Machine Direction (longitudinal to the roll).
d) CMD: Cross Machine Direction (across the roll).
e) Tensile testing is performed using extensometers.

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Description	Test Method	Values
Durability		
Weathering 50 MJ/m² (1 month)	EN ISO 12224	>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 years)	EN ISO 13438	>90% Retained strength
Dimensions		
Standard roll length		150m
Standard roll width		6m
Approximate roll weight		530kg

All materials are tested every 6000m² in an UKAS accredited ISO 17025 laboratory to all mechanical properties prior to release.

The information herein is based upon data obtained by the manufacturer and is considered accurate. However, no warranty is expressed or implied regarding the accuracy of this data. This information is furnished upon the condition that the person receiving it shall evaluate its suitability for the specific application.

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