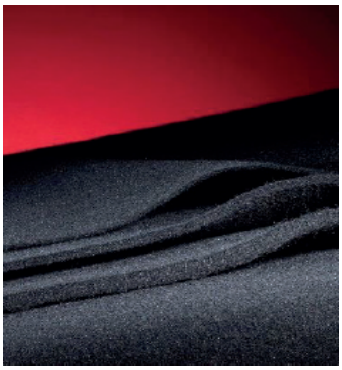
Specialist Geomembranes

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.

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