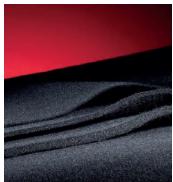
# **Specialist Geomembranes**

#### **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 G000 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 quaranteed durability
- Carbon black for UV stability

Description	Test Method	Unit	Mean Values	
Mechanical Properties				
Static Puncture (CBR)	EN ICO 12227	kN	6	
Push Through Displacement	EN ISO 12236	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/m²	20	
Filter Properties				
Apparent Opening Size	EN ISO 12956	μm	80	
Water Permeability VH50	FN 160 110F0	I/(m².s)	55	
Coefficient of Permeability	EN ISO 11058	m/s 10 <sup>-3</sup>	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	

- 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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Containment Solutions

Spec. 13 Rev.C

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## Landflex G6000 Puncture Resistant Geotextile

Description	Test Method	Values
Durability	rest method	Volume
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 6000m<sup>2</sup> 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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