Specialist Geomembranes

Technical Data Sheet

Landflex™ G3000



Puncture Resistant Geotextile

- Separation
- Filtration
- Protection
- Drainage

CE 1137-CPD-61511

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.

Material Properties	Unit	Test Method	Typical values	Tolerance
Mechanical Properties				
Tensile strength MD	kN/m	EN ISO 10319	17.80	-2.30
Tensile strength CMD	kN/m		17.80	-2.30
Elongation MD	%	EN ISO 10319	50.00	±11.50
Elongation CMD	%		55.00	±12.70
Static puncture resistance (CBR)	kN	EN ISO 12236	3.10	-0.62
Dynamic perforation resistance - Cone drop	mm	EN ISO 13433	13.00	+3.30
Pyramid puncture	N	EN ISO 14574	275	-55.00
Protection efficiency	%	EN ISO 13719	1.50	-0.30
Hydraulic Properties				
Water permeability normal to the plane	m/s	EN ISO 11058	80×10^{-3}	$^{-}24 \times 10^{-3}$
Water flow normal to the plane (*)	$l/m^2/s$		80	-24.00
Water flow capacity in the plane @20 kPa	m^2/s	EN ISO 12958	7×10^{-6}	-10% log g
Characteristic opening size (AOS)	µm	EN ISO 12956	70.00	±21.00
Physical Properties				
Thickness under 2 kPa (*)	mm	EN ISO 9863-1	2.20	±0.44
Weight (*)	g/m^2	EN ISO 9864	250	±25.00
Composition	100% Polypropylene non-woven geotextile			
Durability	Predicted to be durable for a minimum of 25 years in natural soil with 4<pH<9 and soil temperatures <25°C			



(*) Not mandated characteristics for CE marking

Suitable for use in the following applications:

- Roads (EN 13249:2000)
- Railways (EN 13250:2000)
- Foundations & retaining walls (EN 13251:2000)
- Drainage systems (EN 13252:2000)
- Erosion control systems (EN 13253:2000)
- Reservoirs & dams (EN 13254:2000)
- Canals (EN 13255:2000)
- Tunnels & underground structures (EN 13256:2000)
- Solid waste (EN 13257:2000)
- Liquid waste (EN 13265:2000)

Example use shown left:
Upper layer of protection for green roof projects, protecting the rubber membrane from soil / aggregates



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