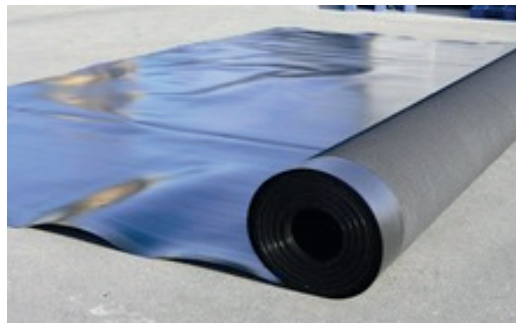


Specialist Geomembranes

Technical Data Sheet

Landflex PE150LL Smooth

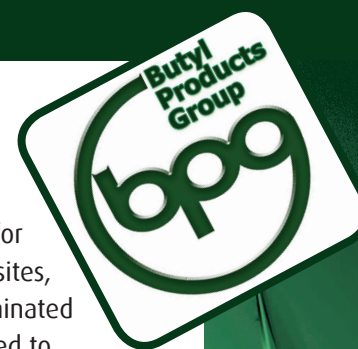


A high quality, single layer LLDPE suitable for use as a barrier membrane on brownfield sites, petrol stations, coalfields, landfill & contaminated industrial areas. The material is highly suited to attenuation ponds, lagoons, water features & as a high performance damp proof membrane because of its high puncture resistance. The membrane offers protection from Carbon Dioxide, Methane and Radon as well as certain common hydrocarbons.

All Landflex PE-LL geomembranes are certified according to the relevant European Standards: EN 13361, EN 13362, EN 13491, EN 13492, EN 13493, EN 15382 & EN 13967

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
Density	g/cm ³	DIN ES ISO 1183-1	<0.940
Melt flow range 190/2.16	g/10min	DIN ES ISO 1133	0.20 - 0.70
Carbon black content (TGA)	%	ASTM D 1603	2.0 - 3.0
Carbon black content	Category	ASTM D 5596	1 - 2
Oxidation resistance	-	DIN EN 14575	Fulfilled
Oxidative induction time (OIT)	min	ASTM D 3895	>100
Stress crack resistance	h	DIN EN 14576	>200
Weathering resistance	h	DIN EN 12224	>3000
Root resistance	-	DIN EN 14416	Fulfilled
Resistance to Leaching	-	DIN EN 14415	Fulfilled
Chemical resistance	-	DIN EN 14414	Fulfilled
Microbiological resistance	-	DIN EN 12225	Fulfilled
Foldability at low temperature	°C	DIN EN 495-5	< -40
Dimensional stability	%	DIN EN 1107-2	<2.0
Thickness	mm	DIN EN 1849-2	1.50 ±5%
Tensile strength at yield Tolerance	Mpa	DIN EN ISO 527 Type 5 200mm/min	14 -3
Elongation at yield Tolerance	%		12 -2
Tensile strength at break Tolerance	Mpa		36 -3
Elongation at break Tolerance	%		900 -100
Tear resistance Tolerance	N/mm	ISO 34 Method B Procedure (a) 50mm/min	130 -20



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Butek Landline

Containment Solutions

Spec. 23.1 Rev. B

Specialist Geomembranes

Technical Data Sheet

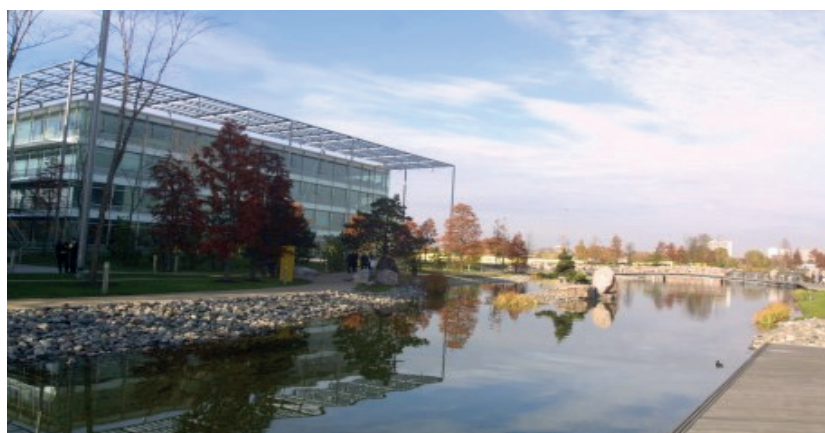
Landflex PE150LL Smooth



Material Properties	Unit	Test Method	Typical Values
Static puncture	kN	DIN ES ISO 12236	-
Bursting pressure	%	DIN 61551	-
Resistance to static loading	-	DIN EN 12730	-



Example application: Landfill Cell Lining



Example application:
Water Feature Lining



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