Specialist Geomembranes

Technical Data Sheet

Landflex™ RPU Reinforced Polyurethane





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
Top face coating & finish	-	-	PUR plain
Top face colour	-	-	Green
Top face fabric	-	-	PA 940 d/tex single ply
Top face thickness	mm	-	0.4
Underside coating & finish	-	-	PUR plain
Underside colour	-	-	Grey
Underside thickness	mm	-	0.4
Characteristics			
Total thickness Tolerance	mm	ISO 2286/3	1.20 ± 0.1
Total weight Tolerance	kg/m²	ISO 2286/2	1.30 ± 0.1
Tensile strength	N/5cm	ISO 1421	Warp >4600 Weft >4500
Elongation at break	%	ISO 1421	Warp > 15 Weft >20
Tear resistance	N	ISO 4674/2	Warp >110 Weft > 95
Peeling test	N/5cm	ISO 2411	> 250
Permeability helium	l/m²/24hr	ISO 7229	< 3.5
Resistances			
Cold resistance Tolerance	°C	ISO 4675/90	-50 ± 5
Tropical test 7 days to 75C 95% humidity	-	-	No variations
Diesel fuel resistance	-	ISO 1421	No variations
Sea water resistance	-	ISO 1421	No variations

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Material Properties	Unit	Test Method	Typical Values
Ozone resistance	-	ISO 3011	No visible cracks
Temperature resistance	°C	-	-50 to +65
Abrasion resistance	mg	ISO 5470/80 5N C517 400 cycles	1
Puncture resistance	N	RINA 3.A1.2.7	> 125
Ageing test 7 days at 70°C	-	-	No variations
Compliant to:			
MIL-T-52983§ 4.5.2.12			
ISO 1817/99 (oil-sea water)			
ISO 15372			



Example application: Temporary fuel storage in remote locations

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