

Specialist Geomembranes



Technical Data Sheet

Landflex™ NSP4900 Geosynthetic Clay Liner



A needle punched, reinforced composite combining two durable geotextile outer layers and a uniform core of high swelling powdered sodium bentonite clay. This construction forms a shear resistant hydraulic barrier with self-sealing characteristics.

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	Values
Geotextile Layers:			
Cover Layer (polypropylene non-woven)			
Mass per unit area	g/m ²	EN ISO 9864	220
Carrier Layer (polypropylene woven)			
Mass per unit area	g/m ²	EN ISO 9864	110
Bentonite Layer (sodium bentonite powder)			
Mass per unit area	g/m ²	EN 14196 (clay)	4,670
Swell index	ml/2g	ASTM D 5890	24
Fluid loss	ml	ASTM D 5891	≤18
Water content	%	DIN 18121 / ISO 11465 (5hrs, 105°C)	Approx.10
Geosynthetic Clay Liner			
Mass per unit layer	g/m ²	EN 14196 (GBR-C)	5,000
Thickness	mm	EN ISO 9863-1	6.0
Max. tensile strength MD/CMD**	kN/m	EN ISO 10319 / ASTM D 4595	12.0 / 12.0
Elongation at break MD/CMD**	%	EN ISO 10319 / ASTM D 4595	10.0 / 6.0
Peel strength	N/10cm*** N/m	ASTM D 6496	≥ 60 ≥ 360
Static puncture strength	N	EN ISO 12236 / ASTM D 6241	2,000
Permeability / Hydraulic Conductivity	m/s	DIN 18130 / ASTM D 5887	2 x 10 ⁻¹¹
Index flux	(m ³ /m ²)/s	DIN 18130 / ASTM D 5887	5 x 10 ⁻⁹
Roll dimensions			
Width x Length / Diameter	m x m / m	-	5.00 x 40 / 0.65

*= based on; **MD = Machine Direction, CMD = Cross Machine Direction; ***Max.peak



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Containment Solutions

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