

Specialist Geomembranes

Technical Data Sheet

Landflex 100ES

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.



Example Application:

Encapsulated Polystyrene Blocks for use as a light-weight fill in part of a railway platform construction

Characteristic	Test Method	Typical Properties (indicative)
Fabric	-	100% PES / 1100dtex
Total Weight	ASTM D751	1000g / m ²
Thickness	ASTM D751	0.90mm
Lacquering	-	1 / 1
Embossing	-	DP
Breaking Strength (strip method) Warp	ASTM D751	3500N
Breaking Strength (strip method) Weft	ASTM D751	3500N
Breaking Yield Strength (grab tensile) Warp	ASTM D751	3000N
Breaking Yield Strength (grab tensile) Weft	ASTM D751	3000N
Bonded Seam Strength Warp	ASTM D751 modified by NSF 54	3000N
Bonded Seam Strength Weft	ASTM D751 modified by NSF 54	3000N
Tear Strength (tongue tear) Warp	ASTM D751	500N
Tear Strength (tongue tear) Weft	ASTM D751	400N
Adhesion Ply (film tearing 2"/min)	ASTM D413	130N / 5cm
Adhesion (heat sealed seam)(dielectric weld)	ASTM D751	150N / 5cm
Abrasion (cy before fabric exposure)	5306 Tabier Fed. Std. 191A H 18 Wheel 1000G	2000cy
Abrasion (max weight loss)	5306 Tabier Fed. Std. 191A H 18 Wheel 1000G	50mg / 100cy
Puncture Resistance	ASTM D4833	1150N
Bursting Strength (ball tip)	ASTM D751	2950N
Low Temperature (4hrs - 1/8" Mandrel)	ASTM D2136	-35C / -30F No Cracking



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Butek Landline

Containment Solutions

Spec. 34.1 Rev. C

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Characteristic	Test Method	Typical Properties (indicative)
Dimensional Stability (100C - 1hr) Warp	ASTM D1204	<1%
Dimensional Stability (100C - 1hr) Weft	ASTM D1204	<1%
Hydrostatic Resistance	ASTM D751-A	>540N / cm ² / >8000psi
Weathering Resistance. No appreciable changes or stiffening / cracking of coating	Carbon ARC / Atlas Weather-o-Meter	8000hrs
Water Absorption (7 days - 21C)	ASTM D471-12	<0.07 kg/m ²
Coefficient of Thermal Expansion / Contraction	ASTM D696	<1.8 x 10 ⁻⁵ cm / C

Chemical Resistance

A: Little to minor effect, B: Minor to moderate effect, X: Not recommended, D: No data available

Acetic Acid 5%	A	Magnesium Chloride	A	Phthalate Plasticiser (DOP)	X
Ammonium Phosphate	A	Magnesium Hydroxide	A	Sodium Acetate Solutions	A
Ammonium Hydroxide	A	Methanol	A	Sodium Bisulphate Solution	A
Ammonium Sulphate	A	Mineral Spirits	A	Sodium Phosphate	A
Antifreeze (Ethylene Glycol)	A	Nitric Acid 5%	A	Sodium Hydroxide 60%	A
Benzene	X	Nitric Acid 50%	X	Sulphuric Acid 50%	A
Butanone	A	Oil: ASTM type 3	A	Toluene	X
Calcium Chloride Solution	A	Oil: Animal	A	Turpentine	A
Calcium Hydroxide	A	Oil: Vegetable	A	Vinegar	A
Chlorine Solution 20%	A	Oil: Hydraulic, Petroleum	A	Water - Potable 23C	A
Clorox (Bleaching Agent)	A	Oil: Hydraulic, Phosphate ester	X	Water - Sea 23C	A
Diesel	A	Oil: Corn	A	Water - Salt 25% 23C	B
Ethanol	A	Oil: Crude	A	Xylene	X
Ethyl Acetate	X	Oil: Raw Linseed	A	Zinc Chloride	A
Fertiliser Solution	A	Oil: SAE-30	A		
Glycerine	A	Oil: Transformer	A		
Hydrochloric Acid HCL 50%	A	Perchloroethylene	X		
Hydrofluoric Acid HF 5%	A	Phenol	X		
Hydrofluoric Acid HF 50%	A	Phenol Formaldehyde	B		
Isopropyl Alcohol	A	Phosphoric Acid 50%	A		
Kerosene	A	Phosphoric Acid 100%	X		



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