

RENOLIT ALKORPLAN 00312
Reinforced geomembrane for floating covers of "drinking water" reservoirs
UV Resistant



→ **PRODUCT**

- Reinforced PVC-P geomembrane multilayer, made of a membrane type RENOLIT ALKORPLAN 35254 (exposed side) with an "alimentary" membrane type RENOLIT ALKORPLAN 35052 (side in contact with water), and reinforced with a grid of polyester.
- Designed for floating covers of drinking water reservoirs.
- High UV stability.

→ **CHARACTERISTICS**

- Geomembrane in accordance with the requirements of ISO 9001 and ISO 14001 certificates.
- CE marking.
- Mechanical properties in accordance with EN 13361.
- Resistant to swelling, rotting and ageing.
- Geomembrane produced with high quality resins, this guarantees high consistency of properties and optimum durability.
- Very high level of water tightness, even with permanent deformation.
- Large capacity for adaptation to irregularities or deformation of support owing to its high deformability and welding strength.
- High resistance to puncturing.
- Root resistance in accordance with EN 14416.
- Not resistant to bitumen, oil and tar.

→ **INSTALLATION**

- Hot air or hot wedge welding achieves assembly of the geomembrane or prefabricated panels. The weld ability and the quality of the welding done on site can be influenced by atmospheric conditions (temperature, humidity of the air) and also by the state of the surface of the geomembrane (clean surface, more or less wetness of the surface) and must be adapted in accordingly.

RENOLIT ALKORPLAN 00312

Reinforced geomembrane for floating covers of "drinking water" reservoirs
UV Resistant

→ CHARACTERISTICS	NORMS	UNITS	SPECIFICATIONS	
Thickness	EN 1849	mm	1.2 \pm 5%	1.5 \pm 5%
Density	EN ISO 1183	g/cm ³	1.30	
Tensile strength	EN 12311-2 (A)	N/50mm	\geq 1050 (L&T)	
Elongation at failure	EN 12311-2 (A)	%	Average \geq 18 (L&T) Value individual \geq 15 (L&T)	
Static puncture resistance	EN 12730	N	\geq 215	\geq 240
Dynamic puncture resistance	EN 12691	mm	< 10	
Hydraulic puncture resistance	NFP 84523	KPa	\geq 1500	
	ASTM 5514	MPa/20mm	\geq 3.0	
Punctual tear strength (nail test)	EN 12310-1	N	\geq 450 (L&T)	
Tear propagation strength	EN 12310-2	N	\geq 220	
Lamination strength	EN 12316-2	N/50mm	\geq 150	
Resistant under water pressure	DIN 16726		Waterproof at 10 bar/10 h Waterproof at 6 bar/72 h	
Dimensional stability after accelerated ageing (6h/80°C)	EN 1107-2	%	\leq 0.3	
Behaviour after long-term ageing 56d/50°C. Methods A&B.				
- General appearance			No blister	
- Dimensional stability, L&T	EN 14415	%	\leq 2	
- Variation of tensile strength, L&T		%	< \pm 10	
- Variation of elongation at failure, L&T		%	< \pm 10	
Folding at temperature of - 20°C			No cracks at -20°C	
Resistant to artificial weathering	EN 12224 EN 13361	years	>10 years	
Cold folding resistance	EN 495-5		No cracks at -25°C	
Water absorption after 28 days	DIN 53495	%	\leq 1	
Water Permeability	EN 14150	m ³ /m ² /day	10 ⁻⁶	
Vapor permeability	EN 1931	μ	20 000	
Root resistance	EN 14416		Fulfilled	

We reserve the right to amend or change specifications as and when required.

We will be pleased to advise current specifications upon request.

Other technical characteristics are available upon request.

→ STORAGE

- Store in a dry unheated space. Rolls to be parallel and in original packing. Do not stack in cross form or under pressure. The storage area must be of such a nature as not to damage the geomembrane. Standard packaging: delivery in roll form, 2.10 meter width, on cardboard cores.