

RENOLIT ALKORPLAN 35052-35152

Geomembrane for use with drinking water

UV RESISTANT



→ PRODUCT

- Type RENOLIT ALKORPLAN 35052 - Homogeneous geomembrane of flexible polyvinyl chloride (PVC-P) manufactured by extrusion free of Bisphenol.
- Type RENOLIT ALKORPLAN 35152 -Homogeneous geomembrane of flexible polyvinyl chloride (PVC-P) manufactured by extrusion free of phthalates.
- Designed for lining tanks, containers, concrete reservoirs for drinking water purposes.

→ CHARACTERISTICS

- Approved for the storage of drinking water in the majority of European countries;
- Manufactured in ISO 9001 & ISO 14001 certified plant;
- Resistant to weathering and UV rays (required thickness and color depending on geographic situation)
- Made exclusively from virgin resins without any recycled constituents, thereby ensuring great 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 weld strength.
- High resistance to puncturing.
- Certified geomembrane for drinking water purposes under EN 1186 (Migration Test)
- Root resistance in accordance with EN 14416.
- Resistant to swelling, rotting and ageing.
- 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) must be adapted in consequence.
- The geomembrane must be fastened linearly along the perimeter and around all details, in order to resist a pull-out value of at least 2700 N/ml.
- The supporting structure must be disinfected.
- If the geomembrane is to be installed on top of a rough surface, an anti puncturing geotextile or a composite protective product must be installed first. If this protection has to be provided by a PVC protective layer, geomembrane RENOLIT ALKORPLAN 35052 itself shall be used.
- The geomembrane may be used on top of bituminous substrate provided that a suitable separation geotextile is installed first (e.g. PP or PES fabric of at least 250 g/m²).

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→ CHARACTERISTICS	NORMS	UNITS	SPECIFICATIONS	
Thickness	EN 1849-2	mm	1.20 +-5%	1.50 +-5%
Density	EN ISO 1183 ASTM D 792	g/cm ³	1.24 +-5%	
Tensile strength	EN ISO 527	N/mm ²	≥ 16	
Elongation at failure	EN ISO 527	%	L: ≥ 280 T: ≥ 280	
Static puncture resistance (CBR)	EN 12236	kN	1.80 +-10%	2.30 +-10%
Tear strength	ISO 34	kN/m	≥ 40	
Resistant under water pressure	DIN 16726		Waterproof at 6 bar/72 h	
Biaxial deformation	P 84-503		Without rupture	
Dimensional stability after accelerated ageing (6h/80°C)	EN ISO 1107-2	%	≤2%	
Behavior after long-term ageing 56d/50°C				
- General appearance			No blister	
- Dimensional stability, L & T	EN 14415	%	≤2%	
- Variation of tensile strength, L & T		%	< ±10%	
- Variation of elongation at failure, L & T		%	< ±10%	
Folding at a temperature of -20°C			No cracks at -20°C	
Resistant to artificial weathering	EN 12224		Fulfilled (< 25%)	
Water Permeability	EN 14150	m ³ /m ² /day	10 ⁻⁶	
Stress cracking resistance	ASTM D5397-99		Not relevant	
Cold folding resistance	EN 495-5		No cracks at -20°C	
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.
- Delivery in roll form, 2.15 meter width, on cardboard cores.