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AQUAPLAST 805 GEO

PRODUCT DESCRIPTION

AQUAPLAST 805 GEO is a non-reinforced plasticised polyvinyl chloride (PVC-P) membrane. The membrane is stabilised against UV radiation and has a very good chemical resistance to all naturally occurring waters.

TECHNICAL PARAMETERS

Parameter	Standard	Value for assigned thickness		
		1.00 mm	1.50 mm	2.00 mm
Mass per unit area ^{*)}	EN 1849-2	1,21 kg/m ²	1,82 kg/m ²	2,42 kg/m ²
Water permeability	EN 14150	< 10 ⁻⁶ m ³ ·m ⁻² ·d ⁻¹		
Tensile strength	EN 12311-2	≥ 15 N/mm ²		
Elongation at break	method B	≥ 250 %		
Static puncture (CBR test)	EN ISO 12236	≥ 0.95 kN	≥ 1.5 kN	≥ 2,0 kN
Tear strength (structural strength)	ISO 34-1 method B	≥ 45 kN/m		
Foldability at low temperature	EN 495-5	≤ -25 °C		
Resistance to weathering - change in tensile strength and elongation	EN 12224	≤ 25 %		
Microbiological resistance - change in tensile strength and elongation	EN 12225	≤ 25 %		
Resistance to oxidation - change in tensile strength and elongation	EN 14575	≤ 25 %		
Resistance to leaching - change in tensile strength and elongation - loss of mass	EN 14415 method A a B	≤ 25 % ≤ 5 %		
Resistance to root penetration	CEN/TS 14416	pass		
Straightness	EN 1848-2	≤ 50 mm		
Dimensional stability	EN 1107-2	max. ± 2 %		
Joint strength	EN 12317-2	≥ 460 N/50 mm	≥ 650 N/50 mm	≥ 860 N/50 mm
Tear resistance	EN 12310-1	≥ 160 N	≥ 240 N	≥ 280 N
Watertightness (500 kPa)	EN 1928 method B	pass		

^{*)} *informative value*

APPROVALS / CERTIFICATES

- Declaration of performance and CE marking according to harmonised standards EN 13361 and EN 13362
- Environmental product declaration (EPD) according to ISO 14025

DIMENSIONS

Thickness [mm] (EN 1849-2)	Width [mm] (EN 1848-2)	Length [m] (EN 1848-2)	Quantity on the roll [m ²] ^{*)}
1.00	1300	30	39.0
	2000	30	60.0
1.50	1300	20	26.0
	1500	20	30.0
	2000	20	40.0
2.00	1200	15	18.0
	2000	15	22.5
		15	30.0

The membrane can be produced in other dimensions upon agreement.

Thickness tolerance: ± 10 %, width tolerance: -0.5 % / $+1$ %, length tolerance: -0 % / $+5$ %

**)
informative value*

COLOUR AND APPEARANCE

The membrane is produced in the following colours: green ~ RAL 6000, khaki ~ RAL 6006.

The colour shade of various production batches of the membranes may differ. Minor colour differences are not considered justified grounds for a claim.

AQUAPLAST 805 GEO is a smooth membrane with matt surface.

USAGE

AQUAPLAST 805 GEO has been designed as insulating geotextile for tanks, dams and sewers. The membrane is suitable for the insulation of retention, irrigation and fire tanks as well as garden ponds and large water bodies.

Thanks to its high ductility and structural strength, AQUAPLAST 805 GEO shows excellent resistance to puncture and outstanding ability to adapt to unevenness of the ground structure. These properties enable the membrane to be used for the insulation of irregular-shaped constructions that are built on less stable ground structure.

APPLICATION

AQUAPLAST 805 GEO is applied in compliance with the principles determined and described in the Construction and Technological Instruction FATRAFOL-A (PN 5422/2017), as amended at the time of the membrane's application, which is available at www.fatrafol.cz.

STORAGE

Store at temperatures between -5 °C and $+30$ °C. On the site, it is necessary to protect the membrane against pollution. It is recommended to protect the membrane against weather effects until it is applied.

MORE INFORMATION

For more information, please see the manufacturer's website www.fatrafol.cz.

LEGAL CLAUSE

The technical data contained herein is based on our current knowledge and experience and relate to the use of the products under normal conditions for application. The information that is included in the current Technical Data Sheet is determined by the method of use and is incomplete. Before using this product, the user is obliged to check whether the product is suitable for the intended use. In addition to that, all users should contact the dealer or manufacturer of this product to obtain additional technical information regarding its use in case they are of the opinion that the information available to them requires some explanation, for both the standard and specific use of this product. Please always make sure that you have the latest version of the product's Technical Data Sheet at your disposal. This Data Sheet and additional information can be obtained from the sales or technical representative of the manufacturer or on the manufacturer's website.

PRODUCER

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