

Protan InfraPlan P15RX



Product Description:

Protan InfraPlan is a reinforced, flexible waterproofing membrane made of plasticised PVC, backed with a 150g PET fleece/geotextile.

Application Areas:

Protan InfraPlan P15RX is designed for functionality and versatility and can be used for waterproofing of tunnels, underground constructions and for the horizontal and vertical sealing of foundations basements. The laminated fleece has two functions; to protect the membrane and also improve the bonding ability for spray applied concrete.

Characteristics / Benefits:

- Complies with EN 13967 and EN 13491 and meets all standard requirements.
- Certified according to the Norwegian handbook N500 and R510.
- 150g PET Geotextile/Fleece laminated onto the membrane for improved bonding ability for spray applied concrete.
- Textile reinforced membrane with a black backside and a light grey top surface.
- Not compatible with bitumen and must be protected against UV.
- The membrane is welded together using hot air which provides a homogenous joint.
- The membrane can be recycled and has a low carbon footprint.

Product properties

Note: Properties measured without the geotextile/fleece

Characteristic	Typical value	Unit	Test method
Weight	1914	g/m ²	EN 1849-2
Thickness	1.5 (±5%)	mm	EN 1849-2
Textile (Reinforcement)	2.8 x 2.8, 1100 dtex (Polyethylene terephthalate, PET)		
Tensile strength	1267	N/50mm	EN 12311-2 (A)
Elongation at break	15	%	EN 12311-2 (A)
Tear Strength	51 / 48	N	DIN ISO 34-1:2016-9 (A)
	116 / 128	N	DIN ISO 34-1:2016-9 (B)
	457 / 319	N	EN 12310-2
Dimensional stability	-0,47 / -0,02	%	EN 1107-2
Perforation	700	mm	EN 12691
Static load	200	N	EN 12730 (C)
Thermal Expansion	2.51E-05	m/m/°C	ASTM D696:2016
Cold flexibility	-25	°C	EN 495-5
Chemical resistance Method A (H ₂ SO ₄) Method: 56 days at 50°C			DIN EN 14414:2004-08 DIN EN ISO 527-4:2019-2 DIN EN 1849-2:2010-04
Mass per unit area before storage	2136	g/m ²	

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Mass per unit area after storage	2130	g/m ²	
Tensile properties			
Residual tensile strength (MD/CMD)	105 / 124	%	
Residual strain (MD/CMD)	89 / 101	%	
Chemical resistance Method B (Va(OH)₂)			DIN EN 14414:2004-08 DIN EN ISO 527-4:2019-2 DIN EN 1849-2:2010-04
Method: 56 days at 50°C			
Mass per unit area before storage	2136	g/m ²	
Mass per unit area after storage	2156	g/m ²	
Tensile properties			
Residual tensile strength (MD/CMD)	98 / 85	%	
Residual strain (MD/CMD)	108 / 96	%	
Chemical resistance Method C: Mixture of diesel oil, paraffin and lubrication			DIN EN 14414:2004-08 DIN EN ISO 527-4:2019-2 DIN EN 1849-2:2010-04
Method: 56 days at 50°C			
Mass per unit area before storage	2136	g/m ²	
Mass per unit area after storage	1712	g/m ²	
Tensile properties			
Residual tensile strength (MD/CMD)	124 / 118	%	
Residual strain (MD/CMD)	93 / 106	%	
Watertightness (Method B, 60kPa, 24h)	Watertight		DIN EN 1928:2000-07
Oxidation			DIN EN 14575:2005-07
Method: 90 days at 85°C			
Residual tensile strength (MD/CMD)	96,2 / 94,2	%	
Residual strain (MD/CMD)	100,0 / 103,0	%	
Note: The reference specimen was stored at 85°C for 20 h.			
Root penetration			DIN CEN/TS 14416:2014-05
Surface area	No root penetration		
Cross sectional area	No root penetration		
Resistance to weathering			DIN EN 12224:2000-11
Residual tensile strength (MD/CMD)	105,3 / 92,5	%	
Residual strain (MD/CMD)	106,2 / 97,2	%	
Gas permeability			ASTM D 1434-82:2015
Gas permeability	0.134 E-06	(cm ³ *cm)/ (cm ² *s*atm)	
Gas transition rate	0.90 E-06	(cm ³)/ (cm ² *s)	
Gas Permeance	0.76 E+03	(cm ³)/(cm ² *24h*atm)	

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Microbiological resistance			DIN EN 12225:2021-01	
	Residual tensile strength (MD/CMD)	107,3 / 103,4		%
	Residual strain (MD/CMD)	104,0 / 105,6		%
Reaction to fire	Class E		EN 13501-1	

Dimensions / packaging

Width:	2.20 m (-0.5% / +1%)		
Length:	According to order		
Roll weight:	According to order		
Pallet:	According to order		
Thickness:	1.5 mm		
Colours:	Topside: Grey	Backside: Black	
White fleece laminated onto the membrane			

Health, Environment & Safety

There is no requirement for a material safety data sheet according to EC-regulation 1907/2006, article 31. The product does not harm the environment when used as specified.

Environment

Protan InfraPlan contains no substances which are listed on REACH/ ECHA's (European Chemicals Agency) candidate list. The membrane contains no priority environmental pollutants or other relevant substances in quantities considered to be hazardous to health and the environment.

Storage

The membrane should be kept dry with the rolls placed on pallets and protected on site with tarpaulins or similar.

Approvals:

Certified according to the Norwegian handbook N500 and R510.



Protan Legal Notice

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