

FIBRANskin SMART

Flexible sheets for water proofing

Technical Data Sheet / October 2023



Material

Compound of PP and PE

Applications

FIBRANskin SMART membrane is used as (variable) plastic and rubber vapour control layer, produced according to EN 13894:2013.

It can be used at all types of buildings, installed under the thermal insulation layer (warm side) and provide control of vapours by adjusting it's water vapour transmission value according to climatic conditions. It slows down the outward diffusion during the cold season and adjusts inwards movement of vapours during the warm season. Single-side **FIBRANTape ACRYL** or double-sided **FIBRANTape 2-SEAL** or **FIBRANTape BUTYL 2-sided** can be used for its application.

FIBRANskin SMART is suitable for pitched roofs and walls.

Technical characteristics

Property	Method	Units	Nominal Value	Minimum	Maximum
Functionality: Water vapour transmission , water tightness, weather durability, fire class					
Water vapour transmission (Sd)	EN 1931 (23-0/75)	m	13	8	18
Density of water vapour flow rate (g)	EN 1931 (23-0/75)	kg /(m ² s)	3,16E-08	5,14E-8	2,28E-08
Temperature resistance	-	°C	-	-40	+80
Gurley airpermeability	ISO 5636/5	s	2000	-	-



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Physical and mechanical properties					
Mass per unit area	EN 1849-2	g/m ²	92	86	98
Thickness	EN 1849-2	mm	0,2	-	-
Water tightness	EN 1928 (A)	class	W1		
Reaction to fire (EN 13501-1)	EN ISO 11925-2	class	E		
Maximum tensile force (MD)	EN 12311-2	N/50mm	390	330	-
Elongation at max. tensile force (MD)	EN 12311-2	%	16	12	-
Maximum tensile force (XD)	EN 12311-2	N/50mm	380	330	-
Elongation at max. tensile force (XD)	EN 12311-2	%	19	14	-
Resistance to tearing MD (nail shank)	EN 12311-1	N	75	45	-
Resistance to tearing XD (nail shank)	EN 12311-1	N	65	40	-
Additional properties					
Width / Length per roll	-	m	1.50 / 50		
Length deviation	EN 1848-2	deviation in %	0	0	-
Width deviation	EN 1848-2	deviation in %	0	-0.5	+1.5
Straightness	EN 1848-2	mm/10m	-	-	75
Resistance to impact	EN 12691	mm	(+)		
Joint strength	EN 12317-2	N/5cm	-	280	-
Durability (against alkali)					
Elongation at max. tensile force (MD)	EN 12311-2	pass / no pass	pass		
Elongation at max. tensile force (XD)	EN 12311-2	pass / no pass	pass		

(+): No Performanec Determined



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Some test methods are modified according to the EN 13859-2:2014 and/or according to the FIBRAN ISO 9001:2008 certified quality system (for details please contact your regional FIBRAN representative). All values are based on roll average. This information corresponds to our current knowledge on the subject. It is offered in accordance with REGULATION (EU) No 305/2011 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 9 March 2011 laying down harmonised conditions for the marketing of construction products and repealing Council Directive 89/106/EEC. It is not intended to substitute for any testing you may need to conduct to determine for yourself the suitability of our products for any application other than the application as specified herein. This information may be subject to revision as new knowledge and experience becomes available. Since we cannot anticipate all variations in actual end-use conditions, FIBRAN makes no warranties and assumes no liabilities in connection with any use of this information for applications other than the application as specified herein. Nothing in this publication is to be considered as a license to operate under or a recommendation to infringe any patent right. Product safety information is available on request. This data sheet is a printed document and is valid without signature.