

Technical Datasheet



Application: Plastic and rubber vapour control layers EN 13984: 2013

Style name
Type of carrier

5816X
Glass fibre and aluminium composite

Language **English**

PROPERTY	METHOD	UNITS	NOMINAL	MINIMUM	MAXIMUM
Product designation acc. to EN 13984	-	-	A	-	-
FUNCTIONALITY: WATER VAPOR AND AIR TIGHTNESS					
Water vapour transmission (sd)	EN 1931 (23-0/75)	m	4900	1500	-
Density of water vapour flow rate (g)	EN 1931 (23-0/75)	kg / (m ² s)	0,866E-10	-	2,72E-10
Vapor Resistance (VR)	on basis of BS3177	MNs/g	24000	7500	-
Emissivity	EN 15976	-	0,05	-	-
Effective R-value of air cavity with metallised sheet:					
(horizontal flow, calculated)	EN ISO 6946	m ² K / W	-	-	0,66
(vertical flow, calculated)	EN ISO 6946	m ² K / W	-	-	0,45
Temperature resistance	-	°C	-	-20	+100
Durability (exposure to artificial ageing)					
Water vapour transmission properties	EN 1931	pass / no pass	pass	-	-
Bendtsen airpermeability	ISO 5636/3	ml/min	0	-	-
Gurley airpermeability	ISO 5636/5	s	-	>2000	-
PHYSICAL AND MECHANICAL PROPERTIES					
Mass per unit area	EN 1849-2	g/m ²	165	155	175
Thickness	EN 1849-2	mm	0,15	-	-
Water tightness	EN 1928 (A)	pass / no pass	pass	-	-
Reaction to fire	EN13501-1	class	A2-s1, d0*	-	-
Maximum tensile force (MD)	EN 12311-2	N/50mm	800	700	-
Elongation at max. tensile force (MD)	EN 12311-2	%	4	2,5	-
Maximum tensile force (XD)	EN 12311-2	N/50mm	800	700	-
Elongation at max. tensile force (XD)	EN 12311-2	%	4	2,5	-
Resistance to tearing MD (nail shank)	EN 12310-1	N	170	140	-
Resistance to tearing XD (nail shank)	EN 12310-1	N	150	120	-
ADDITIONAL PROPERTIES					
Length (customer related, expressed in m)	EN 1848-2	deviation in %	0	0	-
Width (customer related, expressed in mm)	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	-	150	-
Durability (against alkali)					
Elongation at max. tensile force (MD)	EN 12311-2	pass / no pass	(+)	-	-
Elongation at max. tensile force (XD)	EN 12311-2	pass / no pass	(+)	-	-

(*): freehanging & affixed on underlying materials with EN13501-1 fire class A1 or A2-s1, d0. The use of overlaps taping with Tyvek® metallised tape (2060M) is included in the classification.

(+): No Performance Determined

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