

# DuPont™ AirGuard® A2 FR Technical Datasheet



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

Style name **5816X** Language **English**  
Type of carrier **Glass fibre and aluminium composite** Applicable for **UK, Ireland**

PROPERTY	METHOD	UNITS	NOMINAL	MINIMUM	MAXIMUM
Product designation acc. to EN 13984	-	-	A	-	-
<b>FUNCTIONALITY: WATER VAPOR AND AIR TIGHTNESS</b>					
Water vapour transmission (sd)	EN 1931	m	4900	1500	-
Density of water vapour flow rate (g)	EN 1931	kg / (m <sup>2</sup> 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 <sup>2</sup> K / W	-	-	0,66
(vertical flow, calculated)	EN ISO 6946	m <sup>2</sup> 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	-
<b>PHYSICAL AND MECHANICAL PROPERTIES</b>					
Mass per unit area	EN 1849-2	g/m <sup>2</sup>	165	155	175
Thickness	EN 1849-2	mm	0,15	-	-
Water tightness	EN 1928 (A)	pass / no pass	pass	-	-
Reaction to fire	EN 13501-1	classe	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	-
<b>ADDITIONAL PROPERTIES</b>					
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 with DuPont™ AirGuard® FR System tape (I310FR) is included in the classification.

(+): No Performance Determined

The product mentioned above, in our opinion, fulfils the criteria of being classified as 'article' (REACH, Art. 3.3). There are no substances intended to be released from this product under normal or reasonably foreseeable conditions of use. The above article to our current knowledge does not contain substances, above the legal threshold, that are on the 'Candidate List' of Substances of Very High Concern (SVHC) as published on the ECHA website.



Effective date: 22/10/2021

First CE: 19/03/2020

DuPont de Nemours (Luxembourg) S.à r.l.  
Rue General Patton, L-2984 Luxembourg  
DuPont (UK) Limited  
Unit 29, Hither Green Estate, Clevedon  
North Somerset, BS21 6XU  
tyvek.construction@dupont.com

Tel +44 (0) 1275 337660

Fax +44 (0) 1275 879 773

[www.building.dupont.co.uk](http://www.building.dupont.co.uk)

Some test methods are modified according to the EN 13984:2013 and/or according to the DuPont ISO 9001:2015 certified quality system (for details please contact your regional DuPont 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, DuPont 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.