

## Technical Datasheet



Application: Flexible sheets for water proofing –  
Part 1: Underlays for discontinuous roofing EN  
13859-1

Application: Flexible sheets for water proofing –  
Part 2: Underlays for walls  
EN 13859-2

Style name  
Type of carrier

**3583M**  
**HDPE, AI**

Language **English**

PROPERTY	METHOD	UNITS	NOMINAL	MINIMUM	MAXIMUM
<b>FUNCTIONALITY: WATER VAPOUR TRANSMISSION, WATER TIGHTNESS, WEATHER DURABILITY</b>					
Water vapour transmission (sd)	EN ISO 12572 (C)	m	0,03	0,01	0,05
Emissivity	DuPont method	-	0,12		
Effective R-value of air cavity with metallised sheet: (horizontal flow, calculated)	EN ISO 6946	m <sup>2</sup> K / W	-	-	0,54
Temperature resistance	-	°C	-	-40	+100
Flexibility at low temperature	EN 1109	°C	-	-	-40
UV exposure	-	months	-	-	4
Product- / Functional layer thickness		µm	220 / 220	-	-
Water tightness	EN 1928 (A)	class	W1	-	-
Water column	EN 20811	m	2	-	-
<b>PHYSICAL AND MECHANICAL PROPERTIES</b>					
Mass per unit area	EN 1849-2	g/m <sup>2</sup>	83	77	89
Reaction to fire	EN ISO 11925-2	class	(+)	-	-
Maximum tensile force (MD)	EN 12311-1	N/50mm	250	200	300
Elongation at max. tensile force (MD)	EN 12311-1	%	10	6	14
Maximum tensile force (XD)	EN 12311-1	N/50mm	210	170	250
Elongation at max. tensile force (XD)	EN 12311-1	%	13	8	18
Resistance to tearing MD (nail shank)	EN 12310-1	N	90	65	115
Resistance to tearing XD (nail shank)	EN 12310-1	N	85	60	110
<b>PROPERTIES AFTER AGEING</b>					
Artificial ageing by UV and heat:	EN 1297 & EN 1296	residual value			
Water tightness	EN 1928 (A)	class	W1	-	-
Maximum tensile force in MD	EN 12311-1	%	90	-	-
MD elongation at max tensile force	EN 12311-1	%	85	-	-
Maximum tensile force in XD	EN 12311-1	%	90	-	-
XD elongation at max tensile force	EN 12311-1	%	85	-	-
<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	-	-	30
Dimensional stability (MD & XD)	EN 1107-2	%	-	-	1
Resistance to penetration of air	EN 12114	m <sup>3</sup> /(m <sup>2</sup> h 50Pa)	-	-	0,05
Windtight	-	-	yes	-	-

(+): No Performance Determined

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Some test methods are modified according to the EN13859-1& EN13859-2 and/or according to the DuPont ISO 9001:2008 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 Council Directive 89/106/EEC of 21 December 1988 on the approximation of laws, regulations and administrative provisions of the Member States relating to construction products ("European Construction Products Directive"). 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.

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