

## 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, FIRE CLASS</b>					
Water vapour transmission (sd)	EN ISO 12572 (C)	m	0,03	0,01	0,05
Emissivity	EN 15976	-	0,10	0,08	0,12
Effective R-value of air cavity with metallised sheet:					
(horizontal flow, calculated)	EN ISO 6946	m <sup>2</sup> K / W	-	-	0,57
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	-	-
Reaction to fire	EN ISO 11925-2	class	(+)	-	-
<b>PHYSICAL AND MECHANICAL PROPERTIES</b>					
Mass per unit area	EN 1849-2	g/m <sup>2</sup>	83	77	89
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 (MD)	EN 12311-1	%	90	-	-
MD elongation at max. tensile force	EN 12311-1	%	85	-	-
Maximum tensile force (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/10m	-	-	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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