



MD 4 50 V

Year of last update: **2024**



Function: **S+F+D**

STRUCTURE: 100% PE studded membrane

PROPERTIES OF MEMBRANE

				<i>tol</i>
Raw material		100% PE		
Density		>0,94		
Number of dimple per unit area	n/m ²	>23000		
Colour		black		
Type		single cuspated (dimpled)		
Thickness at 2 kPa	EN ISO 9863-1	mm	5	±20%
Carbon black content	ASTM D 1603	%	0,8 - 2,5	
CBR resistance	EN ISO 12236	N	300	±10%
Compression resistance (*)	ASTM D 1621	kN/m ²	1000	±10%
High pressure OIT	ASTM D 5885	min	400	
Retained thickness @ 200 kPa / design lifge 100 yrs	ASTM D7361	%	92,89	
Reduction creep (200 kPa / 100 yrs)	ASTM D7361	-	1,092	
Tensile strength MD/CMD	EN ISO 10319	kN/m	3,2/1,6	+/-20%
Strain at break MD/CMD	EN ISO 10319	%	60/40	+/-30%

(*): related to peak resistance

HYDRAULIC PERFORMANCES

				<i>tol</i>	
In plane water flow capacity MD	EN ISO 12958		l/(m·s)		±30%
	<i>Hydraulic gradient</i>	<i>Contact</i>	<i>i = 0,1</i>	<i>i = 1</i>	
	<i>Load: 20 kPa</i>	R/R	0,60	2,10	
	" <i>100 kPa</i>	R/R	0,58	2,05	
	" <i>200 kPa</i>	R/R	0,56	2,00	
	" <i>500 kPa</i>	R/R	0,54	1,70	

STANDARD DIMENSIONS

				<i>tol</i>
Width	m	2,35- 4,7		±3%
Length	m	55		±2%

* lenght and palletization will be defined during production in order to optimize loadability



The information given in this data sheet is to the best of our knowledge true and correct. TeMa srl reserves the right to change its product specifications at any time. It is the responsibility of the specifier and purchaser to ensure that product specifications used for design and procurement purposes are current and consistent with the products used in each instance.

TeMa Technologies and Materials srl

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