



# MD 4 50 12F 12F

Year of last update: 2024



Function: S+F+D

**STRUCTURE:** drainage geocomposite made by an internal core combined with two geotextiles

## PHYSICAL PROPERTIES OF CORE

				tol
Raw material		POLYOLEFIN MIX		
Density		>0,94		
Colour		black		
Type		single cuspated (dimpled)		
Carbon black content	ASTM D 1603	%	0,8 - 2,5	

## GEOTEXTILES PROPERTIES

				tol
Raw material		PP		
Mass per unit area	EN ISO 9864	g/m <sup>2</sup>	120	+/-10%
Thickness	EN ISO 9863-1	mm	0,8	+/-20%
Tensile strength MD/CMD	EN ISO 10319	kN/m	9/9	-1,5/-1,15
CBR puncture resistance	EN ISO 12236	N	1400	-10%
Cone drop test	EN ISO 13433	mm	33	+6
Opening size	EN ISO 12956	micron	90	+/-30

## GEOCOMPOSITE

				tol
Thickness at 2 kPa	EN ISO 9863-1	mm	5,5	+/-20%
CBR resistance	EN ISO 12236	N	3200	+/-20%
Compression resistance (*)	ASTM D 1621	kN/m <sup>2</sup>	1000	+/-10%
High pressure OIT	ASTM D 5885	min	>600	
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	20/19	+/-30%
Strain at break MD/CMD	EN ISO 10319	%	65/65	+/-25%

(\*): related to peak resistance

## HYDRAULIC PERFORMANCES

				tol	
In plane water flow capacity MD		EN ISO 12958		l/(m·s)	
		Hydraulic gradient	Contact	i = 0,1	i = 1
	Load: 20 kPa	S/R		0,38	1,30
	" 100 kPa	S/R		0,30	1,10
	" 200 kPa	S/R		0,23	0,97
	" 500 kPa	S/R		0,15	0,77

## STANDARD DIMENSIONS

				tol
Width		m	2,35- 4,7	±3%
Length		m	40	±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

Via dell'Industria 21 - 31029 Vittorio V.to (TV) Tel. +39.0438.50.31 - Fax +39.0438.50.34.60 - e-mail: info@temacorporation.com - www.temacorporation.com

REV. 1/2024