



# MD 4 50

Reference norms: **EN 13252**

Certificate number: **1213-CPD-3735**



Function: **Drainage**

**STRUCTURE:** MD 4 50 is a high strength, high flow cusped HDPE drainage core. The primary function of this product is within landfill cells and containment systems where it is used as a leak detection layer between two geomembranes. The cusped core structure is shaped so as to provide a smooth interface with any membranes which are in direct contact with it whilst still providing high in-plane leachate flow capabilities under high loads.

## PROPERTIES OF MEMBRANE

		<i>tol</i>		
Raw material		<b>POLYOLEFIN MIX</b>		
Density		<b>&gt;0,94</b>		
Number of dimple per unit area		n/m <sup>2</sup>	<b>&gt;23000</b>	
Thickness at 2 kPa	EN ISO 9863-1	mm	<b>5</b>	$\pm 20\%$
CBR resistance	EN ISO 12236	N	<b>300</b>	$\pm 10\%$
Compression resistance (*)	ASTM D 1621	kN/m <sup>2</sup>	<b>1200</b>	$\pm 20\%$
Tensile strength MD/CMD	EN ISO 10319	kN/m	<b>3/2</b>	$\pm 20\%$
Strain at break MD/CMD	EN ISO 10319	%	<b>65/65</b>	$\pm 25\%$

(\*): related to peak resistance

## HYDRAULIC PERFORMANCES

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

S/S: Soft/Soft Contact - S/R: Soft/Rigid Contact - R/R: Rigid/Rigid Contact

MD: Machine direction / CMD: Cross machine direction

## STANDARD DIMENSIONS

				<i>tol</i>
Width		m	<b>2,35 - 4,7</b>	$\pm 3\%$
Length		m	<b>48</b>	$\pm 2\%$



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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](mailto:info@temacorporation.com) - [www.temacorporation.com](http://www.temacorporation.com)

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