

# MEMBRANE SPECIFICATION

Product PN M09F0045Hxxxx\*

Mod. 984 d

Description Hydrophilic PVDF 0.45 µm membrane

Rev. 04

**Hydrophilic PVDF  
0.45 µm membrane**



<b>PRODUCT DESCRIPTION</b>	<i>Hydrophilic supported Polyvinylidene fluoride (PVDF) 0.45 µm membrane</i>	
<b>APPLICATIONS</b>	<i>The product is dedicated to liquid filtration in life science applications</i>	
<b>MATERIALS COMPONENTS</b>	<b>Polymer:</b>	Polyvinylidene fluoride
	<b>Support:</b>	polyester
	<b>Others:</b>	Hydrophilic treatment

**PRODUCT CHARACTERISTICS**

**Appearance/Visual:**  
White ribbons of porous hydrophilic material

**Dimensional:**

Standard Product code	Width*	Thickness	Max roll diameter	Standard length	Min length roll	Max length roll	Internal core diameter
M0FG0045H0254	25.4 mm	150 – 200 µm	220 mm	125 m	90 m	180 m	76 ± 0.8 mm
M09F0045H0340	34.0 mm						
M09F0045H0381	38.1 mm						
M09F0045H0787	78.7 mm						
M09F0045H1524	152.4 mm						
M09F0045H2540	254.0 mm						
M09F0045H3048	304.8 mm						
M09F0045H3302	330.2 mm						
M09F0045H4500	450.0 mm						

For other available widths, please contact the sales representative of your country. The following product specification is valid also for other part numbers M09F0045xxxx that do not appear in the table above.  
 \* For width ≤ 15.5 mm : Tolerance ± 0.2 mm  
 For width > 15.5 mm : Tolerance ± 0.8 mm

M09F0045Hxxxx where xxxx is the width of the roll. For instance xxxx=3302 means 330.2 mm

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	<b>Biological:</b>	
	<b>Test</b>	<b>Standards/ procedures of ref</b>
	Chemical toxicity and solvent detection	UNI EN ISO 1135/4 (Annex B)
	Bacterial Endotoxin	Current edition of European and Italian Pharmacopoeia
	<b>Result</b>	Not toxic < 0,3 EU/ml
<b>Regulatory Documentation</b>		
Reg. 1907/2006/EC (REACH)		
Directive 2011/65/EU (RoHS)		
Conflict Minerals free		
<b>Physical:</b>		
<b>Test</b>	<b>Result</b>	
Air Flow	≥ 170 l/h on 1 cm <sup>2</sup> at 1 bar	
Water Flow Rate	≥ 29 ml/min on 1 cm <sup>2</sup> at 1 bar	
Water Bubble Point	≥ 1.0 bar	
<b>STERILIZATION COMPATIBILITY</b>	The product is NOT provided in sterile conditions (if you need to sterilize see below the applicable method)	
		<b>Method</b>
	<input checked="" type="checkbox"/>	Autoclave (121°C)
	<input checked="" type="checkbox"/>	Gamma (25 kGy)
<b>PRODUCT SHELF LIFE</b>	5 years	
<b>STORAGE</b>	Keep the product in a closed and clean environment, away from direct light and excessive temperature and humidity conditions	
<b>PACKAGING AND LABELLING</b>	<p>Each roll is individually packed in a thermo-welded PE bag identified with a barcode label. A second PE bag collects all rolls with the same lot in a cardboard box. Another barcode label is applied outside the box, with reference to the cumulative quantity. Each label reports the following traceability information:</p> <ul style="list-style-type: none"> <li>- Quantity</li> <li>- Product description</li> <li>- Product date and time</li> <li>- Lot number (OL and 6 digits batch number to trace back to raw materials used)</li> <li>- Operator code</li> </ul> <p>An image of a barcode label is provided below as an example.</p>	

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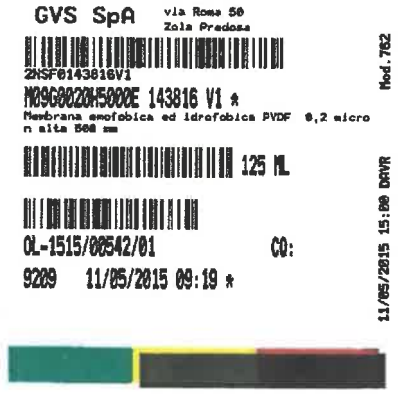
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**CERTIFICATE OF COMPLIANCE**

Conformity declaration is printed on every invoice with a statement according to UNI EN 10204 type 2.1. The Quality management system in compliance with ISO 9001 2015.

**VISUAL REQUIREMENTS**

Visual acceptance requirements apply when inspected under below conditions:  
 Light type: unaided eye + lamp  
 Distance: 30 – 45 cm  
 Timings: 5 sec per unit

Characteristic		Acceptability	Sampling Plan
1	<b>Embedded contamination &gt;0.2 mm<sup>2</sup></b>	For width ≤ 20mm -> Max 2/lm	First 3 linear meters of rolls sampled according to ISO 2859 part 1;1 <sup>st</sup> level
2	<b>Loose particulate &gt;0.2 mm<sup>2</sup></b>	For 20 mm < width ≤ 60mm -> Max 5/lm	
		For 60 mm < width ≤ 130mm ->Max 10/lm	
		For 130 mm < width ≤ 450mm -> Max 20/lm	
3	<b>Grease, stains</b>	0 defects	
4	<b>Splices for each roll</b>	Max 7	

This material specification describes the properties of product above indicated.  
 This document contains general requirements, material description, drawing references, defect specification, biological material requirements.

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## REVISIONS AND APPROVALS:

Date	Rev.	Reason For Change	Prepared by:	Controlled by:	Approved by:
16.10.2019	00	New release	Marta Bojarska R&D <i>Bojarska</i>	Annarita Trotta AQP <i>A. Trotta</i>	Luca Querze RPT <i>Luca Querze</i>

### Customer Approval:

We accept this material specification as a part of the agreed terms of delivery

Company name \_\_\_\_\_

Approved by: \_\_\_\_\_  
(Name, Function) (Signature)

Date \_\_\_\_\_  
(Company stamp)

Please send back this document signed for approval. If we will not receive this specification signed, we consider the first order placed as implicit approval.

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