

Product PN M09G0020HxxxxE *

Mod. 984 d

Description HYDROPHOBIC, HAEMOREPELLENT 0.2 µm FORTEX MEMBRANE

Rev. 04

HYDROPHOBIC AND HAEMOREPELLENT 0.2 μm PVDF FORTEX MEMBRANES



PRODUCT DESCRIPTION	PVDF hydrophobic and haemorepellent 0.2 µm membranes cast on a nonwoven polyester support. Two-sided. Provided in rolls of different widths.			
APPLICATIONS	The product is ideal for venting in medical applications.			
MATERIALS COMPONENTS	Polymer:	PVDF homopolymer		
	Support:	Polyester non-woven		

PRODUCT CHARACTERISTICS

Appearance/Visual: White porous ribbons

Standard Product code	Width*	Thickness	Max roll diameter	Standard length	Min length roll	Max length roll	Internal core diameter
M09G0020H0254E	25.4 mm						
M09G0020H0340E	34.0 mm						
M09G0020H0381E	38.1 mm						
M09G0020H0787E	78.7 mm	150 – 200 μm	220 mm	125 m	90 m	180 m	76 ± 0.8 mm
M09G0020H1524E	152.4 mm						
M09G0020H2540E	254.0 mm						
M09G0020H3048E	304.8 mm						
M09G0020H3302E	330.2 mm						
M09G0020H4500E	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 M09G0020xxxxE that do not appear in the table above.

* For width \leq 15.5 mm : Tolerance \pm 0.2 mm For width > 15.5 mm : Tolerance \pm 0.8 mm



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Biological:		1 1 1 1 1 1 1
Test	Standards/ procedures of ref	Result
Bacteria filtration efficiency test (BFE) using Staphylococcus aureus	ASTM F2101	99%
Chemical toxicity and solvent detection	UNI EN ISO 1135-4 (Annex B) UNI EN ISO 8536-4 (Annex B)	Non toxic
Cytotoxicity-MEM elution in vitro	UNI EN ISO 10993-5 (Annex C)	Non cytototxic
Intracutaneous reactivity test	UNI EN ISO 10993-10	Non-irritant
Delayed hipersensitivity test (Guinea-pig maximization test - GPMT)	UNI EN ISO 10993-10	0% Sensitization
Acute systemic toxicity	UNI EN ISO 10993-11	Non-toxic/non- irritant
In vitro haemolysis test	UNI EN ISO 10993-4 according to Italian Pharmacopoeia	Non hemolytic
Haemocompatibility	UNI EN ISO 10993-4	Hemocompatible

Regulatory Documentation	
Reg. 1907/2006/EC (REACH)	
Directive 2011/65/EU (RoHS)	
BPA, DEHP and Latex free	
Directive 2003/32/EC (TSE-BSE)	
UNI EN ISO 10993-1 (Biocompatibility)	
Directive 67/546/EC and Reg.1272/2008/EC (Medical	sector dangerous substances)

Physical:	
Test	Result
Air Flow GVS Internal GVS internal procedure IC303	AF ≥ 1.35 I/min on 1 cm ² at 1 bar
Water Break Through GVS internal procedure IC305	
Haemorepellency GVS internal procedure IC660	≥ 1.8 bar
	Yes
Oleorepellency grade AATCC 118-2002	≥ 3,5
Hydrorepellency grade DuPont Teflon test	≥ 9.5

STERILIZATION COMPATIBILITY

The product is NOT provided in sterile conditions (compatible sterilization method listed below)

		Method
1		ETO
h	미미	Gamma (25 kGy)
Ī	ভ।	Autoclave (121°C)
L		

PRODUCT SHELF LIFE

5 years

^{*} M09G0020HxxxxE, where xxxx is the width of the roll. For instance xxxx=3302 means 330.2 mm



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STORAGE	Keep	Keep the product in a closed and clean environment, away from direct light and excessive temperature and humidity conditions					
PACKAGING AND LABELLING	A sec Anot Each	cond PE bag collects all rolls with the her barcode label is applied outsid label reports the following tracea - Quantity - Product description - Product date and time - Lot number (OL and 6 digits be-	de the box, with reference to the cumulative quar bility information: Datch number to trace back to raw materials used	rtity.			
	An in	nage of a barcode label is provided	GVS SpA via Reme 50 Zola Predosa 2018 Predos				
		•	######################################				
ERTIFICATE OF	Confo The Q	ermity declaration is printed on eve quality management system in com	ery invoice with a statement according to UNI EN appliance with ISO 9001.	10204 type 2.1.			
ISUAL EQUIREMENTS	Distan Timing	acceptance requirements apply we stype: unaided eye + lamp acce: 30 – 45 cm ags: 5 sec per unit Acceptance Requirement	when inspected under below conditions:				
	1	Embedded contaminations	AQL For width≤ 20mm ->Max 2/lm For 20 mm <width≤ -="" 60mm=""> Max 5/lm</width≤>	Sampling Plan			
	2	Loose contaminations	For 60 mm < width ≤ 130mm ->Max 10/lm For 130 mm < width≤ 450mm ->Max 20/lm	First 3 linear meters of rolls sampled according ISO 2859 part. 1 1st Level			
				All			
	3	Grease, stains Splices/cross-tape for each	0 defects				

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 (name /function and signature)	CONTROLLED BY (name /function and signature)	APPROVED BY: (name /function and signature)	
19/05/2015	04	This specification is extended to all the heights available for the rolls and replaces previous rev.03 for M09G0020H0155E and rev.02 for M09G0020H0206E. Thickness of the membrane was also updated.	Sara Zaccheroni/AQP	Rinaldi Davide/ RIM	Luca Querzè/RPT	
19/10/2015	05	Specified Fortex trade name in the description, membrane reversibility and layout updates.	Sara Zaccheroni/AQP	Rinaldi Davide/ RIM	Luca Querzè/RPT	
01/08/2016	06	Added new widths and updated layout	Sara Zaccheroni/AQP	Rinaldi Davide/ RIM	Luca Querzè/RPT	
21/08/2017	07	Returned to the original AF values range of 1,3 ÷ 5,2 l/min, on 1 cm2 at 1 bar; exluded to this specification the PN M09G0020H0155E	Sara Zaccheroni/AQP	Rinaldi Davide/ RIM	Luca Querzè/RPT	
17/10/2019	08	Modified the widths and updated parameters	Brunella Merante/ R&D Brunella / RearK	Annarita Trotta/AQP	Luca Querzè/RPT	

Customer App	proval:	WAR HESS LAVE OUT TO A TOTAL TO A	
We accept this n	naterial specification as a part of the agree	ed 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.