



DATA SHEET

Membrana™
Oxygenation Membrane
Type X30-240

Intended use: Cardiac therapy
Sheet No. X30-240 of 01/16
supersedes X30-240 of 11/13

Chemical composition **Test Ref.No:**

Polymer Polypropylene

Physical properties

Wall thickness		28 ± 2	µm	QT-HF-1019
Outer diameter		300 ± 6	µm	QT-HF-1019
Internal diameter		233 - 255	µm	QT-HF-1019
Shape Ratio	≤	1.19		QT-HF-1019
Porosity	nominal	40	%	QT-HF-1005
Tensile break strength	≥	175	g/fil	QT-HF-1007
Burst strength, min		220 (15.5 kg/cm ²)	psi	QT-HF-1008
Shrinkage, axial direction (unrestrained)	≤	2.8	%	QT-HF-1004

Membrane performance characteristics

Resistance to air flow (avg.)	25-45	Gurley sec.	QT-HF-1001
-------------------------------	-------	-------------	------------

Available make-up configurations

Six filament spools
Undistorted and distorted single layer mats

Technical Information: The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.

Product Use: Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application.

Warranty, Limited Remedy, and Disclaimer: Unless an additional warranty is specifically stated on the applicable 3M product packaging or product literature, 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. If the 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.

Limitation of Liability: Except where prohibited by law, 3M will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.

3M and Membrana are trademarks of 3M Company. © 2016 3M Company. All rights reserved.



**Industrial Business Group
Membranes Business Unit**
13840 South Lakes Drive
Charlotte, North Carolina
28273 USA

Phone: +1 704 587 8888
Fax: +1 704 587 8610

**3M Deutschland GmbH
Membranes Business Unit**
Öhder Straße 28
42289 Wuppertal
Germany

Phone: +49 202 6099 - 0
Fax: +49 202 6099 - 241

3M Beijing | Representation Office
20 Floor, East Area of Hanwei, Bldg.
No.7, Guanghua Rd., Chaoyang District
Beijing 100022
China

Phone: +86 10 589 43 406
Fax: +86 10 589 43 409

**3M Japan Ltd.
Membranes Business Unit**
6-7-29, Kita-Shinagawa,
Shinagawa-ku, Tokyo
141-8684 Japan

Phone: +81 3 6409 5733
Fax: +81 3 6409 5827