



**PLASMAPHAN®**

**Intended use:** Plasmapheresis

**Capillary membrane  
Type P1 LX**

**Sheet No.** 431/9028/000 of 03/16  
**supersedes** 431/9028/000 of 11/13

**Chemical composition**

**Test Ref.No:**

Polymer	Polypropylene		
Residual oil content	≤	100	ppm
			702/206

**Physical properties**

Wall thickness	m	150	µm	701/018
		± 25	µm	
Inner diameter	m	330	µm	701/018
		± 50	µm	
Tensile strength	≥	60	cN	701/010
Elongation at break	≥	60	%	701/010

**Membrane performance characteristics**

Transmembrane flow (Isopropylalcohol, 37°C)	m	9.3	ml/[min x cm <sup>2</sup> x bar]	701/044
		± 2.3	ml/[min x cm <sup>2</sup> x bar]	
Maximum pore size (calculated from BP)	m	0.47	µm	701/005
		+ 0.07	µm	
		- 0.06	µm	
Bubble point (Isopropylalcohol, 23°C)	m	1.31	bar	701/005
		+ 0.19	bar	
		- 0.18	bar	

**Available make-up configurations**

**Bundles (customer specified)**

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



info@lennotech.com Tel. +31-152-610-900  
www.lennotech.com Fax. +31-152-616-289

