

## 3M™ MicroPES™ 8F Series Flat Sheet Membrane

**Model:** 8F

**Product Type:** Flat Sheet Filtration Membrane

**Description:** The MicroPES flat sheet membrane is made from a partially sulfonated polyethersulfone polymer. Their asymmetric pore structure offers a perfect balance between highly selective filtration characteristics and high fluxes with minimized flux barriers.

**Available Make-up Configurations:** Rolls

### Performance

Parameter	Value
Bubble point (in water)	1.45 ± 0.25 bar (21.0 ± 3.6 psi)
Transmembrane flow (water, 25° C)	≥ 170 ml/(min cm <sup>2</sup> bar) (≥ 10889 ml / (min ft <sup>2</sup> psi)) (≥ 75.62 ml/(min in <sup>2</sup> psi))

### Materials of Construction

Hydrophilic Polyethersulfone

### Physical Properties

Parameter	Value
Thickness	110 ± 10 μm (4.3 ± 0.4 mil)
Tensile strength	
Longitudinal	≥ 900 cN / 15 mm
Transversal	≥ 800 cN / 15 mm
Elongation at break	
Longitudinal	≥ 25%
Transversal	≥ 30%
Change of length (steam, 121° C)	≤ 3 %

All data is based on internal 3M testing procedures.

## Flushing Recommendation:

This product is known to contain residual manufacturing solvents. The customer is responsible for determining and implementing the appropriate transmembrane washing conditions to remove these residuals based on their assessment, requirements, and particular application needs.

Intended Use
<p>3M™ MicroPES™ are flat sheet liquid microfiltration membrane products intended for use by customers, such as OEMs, in their manufacture of liquid microfiltration cartridges and liquid microfiltration systems in various applications such as industrial, food and beverage, pharmaceutical, and medical device, etc. requiring specialized liquid microfiltration in accordance with the product's use requirements and instructions.</p> <p>Since there are many factors that can affect a product's use, the customer and user remain responsible for determining whether the 3M product is suitable and appropriate for the user's specific application, including user conducting an appropriate risk assessment and evaluating the 3M product in user's application for safety, regulatory compliance, performance, and any other requirements.</p>
Restrictions on Use
<p>3M advises against the use of 3M™ MicroPES™ Flat Sheet Membrane products in any application other than the stated intended use(s), since other applications have not been evaluated by 3M and may result in an unsafe or unintended condition.</p>
Technical Information
<p>The technical information, guidance, and other statements contained in this document or otherwise provided by 3M are based upon records, tests, or experience that 3M believes to be reliable, but the accuracy, completeness, and representative nature of such information is not guaranteed. Such information is intended for people with knowledge and technical skills sufficient to assess and apply their own informed judgment to the information. No license under any 3M or third party intellectual property rights is granted or implied with this information.</p>
Product Selection and Use
<p>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, conducting appropriate risk assessments, and determining whether it is fit for a particular purpose and suitable for user's method of application.</p>
Warranty, Limited Remedy, and Disclaimer
<p>Unless a different warranty is expressly identified on the applicable 3M product literature or packaging (in which case such express warranty governs), 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, FITNESS FOR A PARTICULAR PURPOSE, OR ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE. If a 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.</p>
Limitation of Liability
<p>Except for the limited remedy stated above, and except to the extent prohibited by law, 3M will not be liable for any loss or damage arising from or related to the 3M product, whether direct, indirect, special, incidental, or consequential (including, but not limited to, lost profits or business opportunity), regardless of the legal or equitable theory asserted, including, but not limited to, warranty, contract, negligence, or strict liability.</p>



**3M Company**  
**3M Separation and Purification Sciences**  
**Division**  
13840 South Lakes Drive  
Charlotte, North Carolina 28273 USA  
Phone: +1 980 859 5400  
3M.com/membrana

**3M Deutschland GmbH**  
**3M Separation and Purification Sciences Division**  
Öhder Straße 28  
42289 Wuppertal, Germany  
Phone +49 202 6099-0

© 3M 2022. All rights reserved. 3M and MicroPES are trademarks of 3M Company. Please recycle.

Rev 032022