

**3M™ MicroPES™ 2F Series Flat Sheet Membrane****Model:** 2F**Product Type:** Flat Sheet Filtration Membrane

**Description:** The flat sheet membrane is made from a partially sulfonated polyethersulfone polymer. Their highly 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)	4.3 ± 0.54 bar (62.4 ± 7.8 psi)
Transmembrane flow (water, 25° C)	≥ 35 ml/(min cm <sup>2</sup> bar) (≥ 2241 ml/(min ft <sup>2</sup> psi)) (≥ 15.57 ml/(min in <sup>2</sup> psi))
Bacteria retention in accordance with the current ASTM F838 guidelines ( <i>Brevundimonas diminuta</i> )	0 CFU at a challenge level of not less than 10 <sup>7</sup> CFU/cm <sup>2</sup>

**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™ Flat Membranes 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>
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<p>3M advises against the use of 3M™ 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>
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**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

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