

3M™ MicroPES™ 6F Series Flat Sheet Membrane

Model: 6F

Product Type: Flat Sheet Filtration Membrane

Description: The MicroPES 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)	1.9 ± 0.42 bar (27.6 ± 6.1 psi)
Transmembrane flow (water, 25° C)	≥ 90 ml/(min cm ² bar) (≥ 5765 ml / (min ft ² psi)) (≥ 40.03 ml/(min in ² psi))
Yeast retention following the current ASTM F838 guidelines (<i>Sacch. cerevisiae</i>)	≥ 7 LRV at a challenge level of not less than 10 ⁷ CFU/cm ²

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 specifications are based on 3M internal test procedures.

Flushing Recommendation:

This product is known to contain residual manufacturing solvents. Determining the appropriate transmembrane washing conditions to remove these residuals is the responsibility of the customer and is based on their knowledge, experience, and application.

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>
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