

3M™ MicroPES™ 12F Series Flat Sheet Membrane

Model: 12F

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)	1.05 ± 0.25 bar (15.2 ± 3.6 psi)
Transmembrane flow (water, 25° C)	≥ 260 ml/(min cm ² bar) (≥ 16654 ml / (min ft ² psi)) (≥ 115.7 ml/(min in ² psi))

Materials of Construction

Hydrophilic Polyethersulfone

Physical Properties

Parameter	Value
Thickness	110 ± 10 μm (4.33 ± 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>
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