

Flat sheet membrane

MicroPES 4F flat sheet membrane

Model: 4F**Product type:** Flat sheet filtration membrane

Description: The Thermo Scientific™ MicroPES™ 4F 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)	3.1 ± 0.35 bar (45 ± 5.1 psi)
Transmembrane flow (water, 25° C)	≥ 60 ml/(min cm ² bar) (≥ 3843 ml / (min ft ² psi)) (≥ 26.69 ml/(min in ² psi))
Bacteria retention in accordance with the current ASTM F838 guidelines (<i>Serratia marcescens</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 data is based on internal Thermo Fisher Scientific 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: The MicroPES 4F flat sheet membrane are flat sheet liquid microfiltration membrane products intended for use by customers, such as OEMs, in the 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. Since there are many factors that can affect a product's use, the customer and user remain responsible for determining whether the Thermo Scientific product is suitable and appropriate for the user's specific application, including user conducting an appropriate risk assessment and evaluating the Thermo Scientific product in user's application for safety, regulatory compliance, performance and any other requirements.

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