

Flat sheet membrane

Membrana DuraPES 200 iV hydrophilic flat sheet membrane

Product name: Thermo Scientific™ Membrana™ DuraPES™ 200iV Hydrophilic Flat Sheet Membrane

General

Intended use Microfiltration

Available make-up configuration Rolls

Chemical composition

Polymer Polyethersulfone

Membrane performance characteristics

Bubble point (water, 25°C) m 4.8 bar (≈69.6 psi) ± 0.5 bar (≈7.3 psi)

Transmembrane flow (water, 25°C)
 ≥ 45 ml/(min cm² bar)
 ≥ 2882.60 ml/(min sq ft psi)
 ≥ 20.02 ml/(min sq in psi)

Retention of bacteria (*Brevundimonas diminuta*) ≥ 7 log reduction value

Typical physical properties

Thickness m 140 µm (≈5.512 mil) ± 10 µm (≈0.394 mil)

Tensile strength

Longitudinal ≥ 550 cN / 15 mm

Transversal ≥ 450 cN / 15 mm

Elongation at break

Longitudinal ≥ 10%

Transversal ≥ 15%

Change of length (steam, 121°C) ≤ 3%

m = mean value

Intended Use: The Membrana DuraPES 200 iV hydrophilic flat sheet membranes are intended for use by OEMS for the manufacture of cartridges and filters. These products may be used for liquid filtration, degassing of liquids or introduction of gases in liquids. Typical applications include industrial processes, chemical processes, automotive industry, food and beverage and sterile filtration.

Since there are many factors that can affect a product's use, the customer and user remain responsible for determining whether the DuraPES membrane material 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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