

Flat sheet membrane

DuraPES 201 flat sheet membrane

Model: 201**Product type:** Flat sheet filtration membrane

Description: The Thermo Scientific™ DuraPES™ 201 Flat Sheet Membrane is made from a partially sulfonated polyethersulfone polymer. Its 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 (water)	4.8 bar $\pm$ 0.5 bar (69.6 psi $\pm$ 7.3 psi)
Transmembrane flow (water, 25°C)	$\geq$ 45 ml/(min cm ² bar) ($\geq$ 2882 ml/(min ft ² psi)) ($\geq$ 20.02 ml/(min in ² 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 ⁷ CFU/cm ²

Materials of construction

Polyethersulfone

Physical properties

Parameter	Value
Thickness	140 μ m $\pm$ 10 μ m (5.5 mil $\pm$ 0.39 mil)
Tensile strength	
Longitudinal	$\geq$ 700 cN / 15 mm
Transversal	$\geq$ 650 cN / 15 mm
Elongation at break	
Longitudinal	$\geq$ 20%
Transversal	$\geq$ 20%
Change of length (steam, 121°C)	$\leq$ 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 DuraPES 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 DuraPES membrane material 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.

Restrictions on Use: Thermo Fisher Scientific Inc. advises against the use of these DuraPES flat sheet membrane products in any application other than the stated intended use(s) since other applications have not been evaluated by Thermo Fisher and may result in an unsafe or unintended condition.

Technical Information: The technical information, guidance, and other statements contained in this document or otherwise provided by Thermo Fisher are based upon records, tests, or experience that Thermo Fisher believes to be reliable, but the accuracy, completeness, and representative nature of such information is not guaranteed. Such information is intended for people with knowledge and technical skills sufficient to assess and apply their own informed judgment to the information. No license under any Thermo Fisher or third party intellectual property rights is granted or implied with this information.

Product Selection and Use: Many factors beyond Thermo Fisher's control and uniquely within user's knowledge and control can affect the use and performance of a Thermo Scientific product in a particular application. Given the variety of factors that can affect the use and performance of a Thermo Scientific product, user is solely responsible for evaluating the Thermo Scientific product, conducting appropriate risk assessments, and determining whether it is fit for a particular purpose and suitable for user's method of application

Thermo Fisher Scientific BPG GmbH

Oehder Strasse 28

42289 Wuppertal, Germany

 For more information contact your Thermo Fisher Scientific sales representative or visit thermofisher.com/membranesforoem

thermo scientific