

# 3M™ MicroPES™ Flat Membrane Type 1F M

## Chemical Composition

<b>Membrane</b>	Polyethersulfone
<b>Nonwoven</b>	Polypropylene
<b>Adhesive</b>	Polyolefine
<b>Wetting property</b>	Hydrophilic

## Physical Properties

<b>Thickness</b>	265 ± 50 µm (10.4 ± 2 mil)
<b>Tensile strength</b>	
<b>Longitudinal</b>	≥ 3000 cN/15 mm
<b>Transversal</b>	≥ 2500 cN/15 mm
<b>Elongation at break</b>	
<b>Longitudinal</b>	≥ 15%
<b>Transversal</b>	≥ 15%

## Membrane Performance Characteristics

<b>Transmembrane flow (water, 25 °C)</b>	≥ 7 ml/(min cm <sup>2</sup> bar) (≥ 448 ml/(min ft <sup>2</sup> psi)) (≥ 3.11 ml/(min in <sup>2</sup> psi))
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## Available Make-up Configurations

**Rolls**

All specifications are based on 3M internal test procedures.

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IM-1018  
Rev. 02/2020

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