

# 3M™ MicroPES™ Flat Membrane Type 12F

## Chemical Composition

Polymer	Polyethersulfone
Wetting property	Hydrophilic

## Physical Properties

Thickness	110 ± 10 µm (4.33 ± 0.4 mil)
<b>Tensile strength</b>	
Longitudinal	≥ 900 cN/15 mm
Transversal	≥ 800 cN/15 mm
<b>Elongation at break</b>	
Longitudinal	≥ 25%
Transversal	≥ 30%
Change of length (steam, 121 °C)	≤ 3 %

## Membrane Performance Characteristics

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

## Available Make-up Configurations

Rolls

All specifications are based on 3M internal test procedures.

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