

3M™ MicroPES™ Flat Membrane Type 1F PH

Chemical Composition

Polymer	Polyethersulfone
Wetting property	Hydrophilic

Physical Properties

Thickness	110 ± 10 µm (4.33 ± 0.4 mil)
Tensile strength	
Longitudinal	≥ 800 cN/15 mm
Transversal	≥ 700 cN/15 mm
Elongation at break	
Longitudinal	≥ 25%
Transversal	≥ 30%
Change of length (steam, 121 °C)	≤ 3 %

Membrane Performance Characteristics

Bubble point (in iso-propylalcohol)	2.8 ± 0.45 bar (40.6 ± 6.5 psi)
Transmembrane flow (water, 25 °C)	≥ 4 ml/(min cm ² bar) (≥ 256.2 ml/(min ft ² psi)) (≥ 1.78 ml/(min in ² psi))

Available Make-up Configurations

Rolls

All specifications are based on 3M internal test procedures.

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