

3M™ Flat Membrane MicroPES™ Series Type 12F iv

Chemical Composition	
Polymer	Polyethersulfone
Wetting property	Hydrophilic

Physical Properties	
Thickness	110 ± 10 µm (4.3 ± 0.4 mil)
Tensile strength	
Longitudinal	≥ 900 cN/15 mm
Transversal	≥ 800 cN/15 mm
Elongation at break	
Longitudinal	≥ 25%
Transversal	≥ 30%
Change of length (steam, 121 °C)	≤ 3%

Membrane Performance Characteristics	
Bubble point (in water)	0.84 ± 0,16 bar (12.2 ± 2.3 psi)
Transmembrane flow (water, 25 °C)	≥ 360 ml/(min cm² bar) (≥ 23060 ml/(min ft² psi)) (≥ 160.14 ml/(min in² psi))
Retention of bacteria (Candida albicans)	≥ 7 log/cm² reduction value

Available Make-up Configurations	
Rolls	

All specifications are based on 3M internal test procedures.

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