



3M™ Membrana™ DuraPES® Hydrophilic Flat Membrane, Type 450

General	
Intended use	Microfiltration
Available make-up configuration	Rolls

Chemical Composition	
Polymer	Polyethersulfone

Membrane Performance Characteristics		
Bubble point (water, 25 °C)	m 3.45 bar (≈50.03 psi) ± 0.35 bar (≈5.07 psi)	
Transmembrane flow (water, 25 °C)	≥ 75 ml/(min cm² bar) ≥ 4804.33 ml/(min sq ft psi) ≥ 33.36 ml/(min sq in psi)	
Retention of bacteria (Serratia marcescens)	≥7 log reduction value	

Typical Physical Properties		
Thickness		m 140 μm (≈5.512 mil) ± 10 μm (≈0.394 mil)
Tensile strength	longitudinal transversal	≥550 cN / 15 mm ≥450 cN / 15 mm
Elongation at break	longitudinal transveral	≥10% ≥15%
Change of length		(steam, 121 °C) ≤ 3%

m = mean value

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