



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 (<i>Serratia marcescens</i>)	≥7 log reduction value

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

m = mean value

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