



3M™ Membrana™ X30/230 Series Capillary Membrane

Model: X30-230

Product Type: Oxygenation Membrane

Description: Membrana™ X30 Series hydrophobic capillary membranes are designed for gas exchange in medical oxygenators.

Available Make-up Configurations: Six filament spool

Performance

Parameter	Value
Resistance to air flow	25-45 Gurley sec.
Bubble point	≥ 160 psi

Materials of Construction

Polypropylene

Physical Properties

Parameter	Value
Wall Thickness	31 ± 2 μm
Outer Diameter	294 ± 5 μm
Inner Diameter	233 ± 9 μm
Outer Diameter Shape Ratio	≤ 1.17
Tensile Break Strength	≥ 175 g/in
Elongation at Break	≥ 50 %
Shrinkage, Axial Direction (unrestrained)	≤ 3.5 %

All specifications are based on 3M internal test procedures.

Intended Use
<p>Oxygenation membranes are gas exchange membranes which are intended as precursor products for the production of oxygenators. Oxygenators are medical devices intended for use in blood oxygenation. 3M supplies oxygenation membranes in the form of capillaries and knitted mats to oxygenator manufacturers in accordance with specifications and technical product references.</p> <p>Since there are many factors that can affect a product's use, the customer and user remain responsible for determining whether the 3M product is suitable and appropriate for the user's specific application, including user conducting an appropriate risk assessment and evaluating the 3M product in user's application for safety, regulatory compliance, performance and any other requirements.</p>
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