

Acrylic Copolymer Membranes



Acrylic copolymer membranes are our most robust materials for general filtration applications. These are designed to be used as single-use membranes in applications requiring retention properties combined with high tensile strengths. They are ideal for prefiltration, when filtering viscous and difficult-to-filter solutions.



These membranes provide excellent throughput with high liquid flow rates at low differential pressures ensuring robust performance in the most aggressive applications.



The acrylic copolymer membranes are cast on a non-woven nylon support providing excellent durability and handling features which minimize material scrap in device manufacturing. Handled either wet or dry, these membranes are strong and flexible. Our acrylic copolymer membranes comply with United States Pharmacopeia (USP) Biological Reactivity Test, *In Vivo* <88> for biosafety and are non-cytotoxic. In addition, these membranes withstand gamma, UV, and ETO sterilization providing compatibility to your most stringent sterilization requirements and medical applications.

Applications

- General filtration
- Protects final filters (prefilter)

Sealing

- Mechanical
- Heat
- Ultrasonic
- Insert molding
- RF welding
- Adhesive

Product Information

Specification

Hydrophilic Supported Acrylic Copolymer

Typical Membrane Characteristics

Base Material	Nominal Pore Size (μm)	Thickness	
		mils	μm
Acrylic copolymer on non-woven nylon support	0.2	6.0-12.0	152.4-304.8
	0.45	6.0-12.0	152.4-304.8
	0.8	6.0-12.0	152.4-304.8
	1.2	6.0-12.0	152.4-304.8
	3.0	4.5-8.5	114.3-215.9
	5.0	4.5-8.5	114.3-215.9

Wet time: ≤ 15 seconds

Typical Performance Characteristics

Water Bubble Point		Water Flow (mL/min/cm ² @ 0.7 bar, 10 psi)
psi	bar	
≥ 25.0	≥ 1.72	≥ 10.6
≥ 16.0	≥ 1.10	≥ 21.0
≥ 8.0	≥ 0.55	≥ 88.0
≥ 6.0	≥ 0.41	≥ 176.0
≥ 3.0	≥ 0.21	≥ 378.0
≥ 2.0	≥ 0.14	≥ 662.0

Ordering Information

Custom roll, sheet, and disc sizes available upon request.

Please contact your local sales representative for additional information.

Part Number	Description	Pkg
S80158	Versapor-200 W/WA membrane, 0.2 μm, 8" x 10" sheet	1/pkg
S80104	Versapor-450 W/WA membrane, 0.45 μm, 8" x 10" sheet	1/pkg
S80105	Versapor-800 W/WA membrane, 0.8 μm, 8" x 10" sheet	1/pkg
S80143	Versapor-1200 W/WA membrane, 1.2 μm, 8" x 10" sheet	1/pkg
S80151	Versapor-3000TN W/WA membrane, 3.0 μm, 8" x 10" sheet	1/pkg
S80191	Versapor-5000TN W/WA membrane, 5.0 μm, 8" x 10" sheet	1/pkg



Corporate Headquarters
Port Washington, NY, USA

European Headquarters
Fribourg, Switzerland

Asia-Pacific Headquarters
Singapore

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