Pall Corporation

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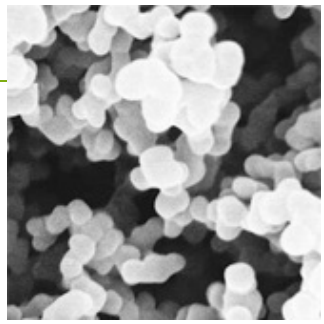
Supor® PES Membrane Disc Filters

Description

High Flow Rate Membrane Optimized for Biological, Pharmaceutical, and Sterilizing Filtration Requirements



- Fast filtration with superior flow rates and high throughputs
- Low protein binding and extensive drug compatibility for critical applications
- Saves time and money with fewer filter changes per sample volume
- 142 and 293 mm discs feature printed tab for instant recognition of pore size and lot number

Application

- Suited for biological, pharmaceutical, and sterilizing filtration requirements
- Available for microbiological analysis in individual packaging

Specifications

Filter Media

- Hydrophilic polyethersulfone (PES)

Pore Size

- 0.1, 0.2, 0.45, and 0.8 µm

Diameter

- 13 - 293 mm

Typical Thickness

- 0.1 µm: 132 µm (5.2 mils)
- 0.2 µm: 145 µm (5.7 mils)
- 0.45 and 0.8 µm: 140 µm (5.5 mils)

Typical Water Flow Rate

- mL/min/cm2 at 0.7 bar (70 kPa, 10 psi)
  0.1 µm: 5
  0.2 µm: 26
  0.45 µm: 58
  0.8 µm: 165

Maximum Operating Temperature - Water

- 100 °C (212 °F)

Extractables - Soxhlet Extraction

- < 4%

Minimum Bubble Point - Water

- 0.2 µm: 3.5 bar (350 kPa, 51 psi)
- 0.45 µm: 2.5 bar (250 kPa, 36 psi)

- 0.8 µm: 1.0 bar (100 kPa, 15 psi)

60% IPA/40% H2O (v:v)

- 0.1 µm: 2.4 bar (240 kPa, 35 psi)

Biological Safety

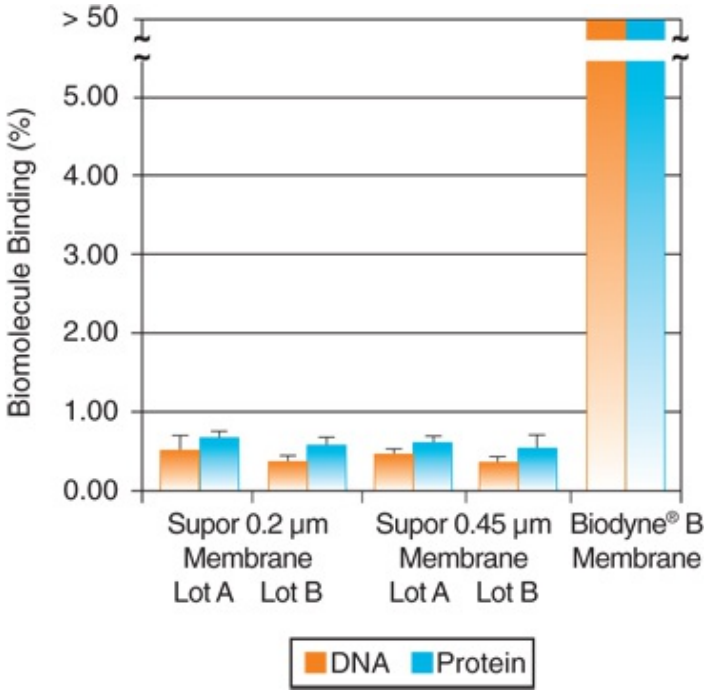
- Passes United States Pharmacopeia (USP) Biological Reactivity Test, *In Vivo* <88>

Sterilization

- Provided non-sterile. Can be sterilized by autoclaving at 121 - 123 °C (250 - 253 °F) for 30 min. PN 63025, 60043, 65472 and 66234 are provided gamma-irradiated.

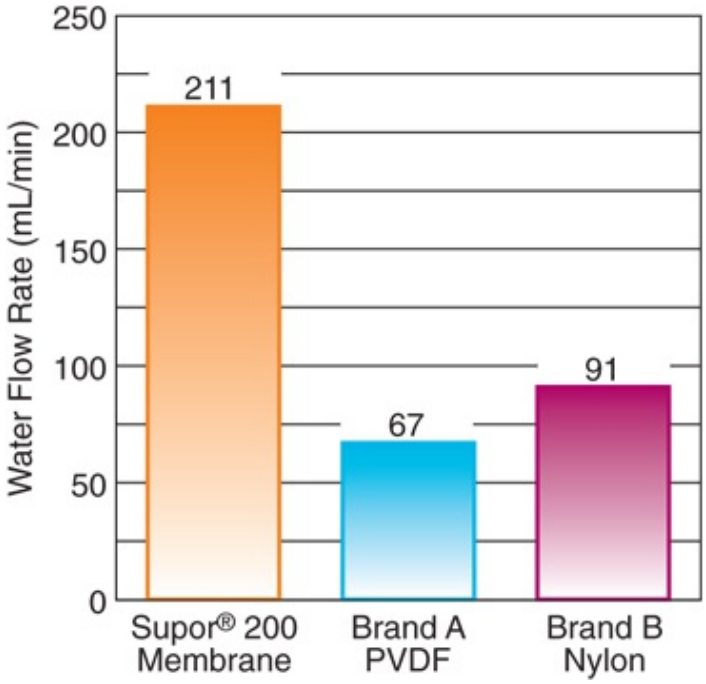
Performance

Supor Membrane is Low in Biomolecule Binding



^{125}I-labeled BSA (1.6 µg) or ^{32}P-labeled DNA (500 ng) was diluted to 5 mL in PBS (BSA) or Tris-EDTA (DNA) and filtered through a 13 mm disc of the indicated membrane. Filtration was carried out using a 10 mL syringe at a flow rate of 1.0 mL/minute. Binding was determined by comparing the amount of radioactivity remaining in the membrane (triplicate) to the activity of the starting material by counting the disc or solution in a scintillation counter. Biodyne® B membrane is designed for biomolecule binding and was used as a positive control.

Membrane Water Flow Rate



Supor polyethersulfone membrane flow rate outperforms nylon and PVDF membranes of the same pore size (0.2µm).

Related Products

- 13 mm Plastic Swinney Filter Holder
- 25 mm Filter Funnel, Stainless Steel
- 47 mm Filter Funnels, Stainless Steel
- 25 mm Easy Pressure Syringe Filter Holder
- 25 mm In-line Filter Holder, Delrin* Plastic
- 47 mm In-line Filter Holder, Aluminum
- 47 mm In-line Filter Holder, Polycarbonate
- AcroCap™ Positive Pressure Devices
- AcroPak™ 200 Capsules with Fluorodyne® II Membranes
- AcroPak™ 200 Capsules with Supor® Membranes
- AcroPak™ 500, 1000, & 1500 Sterile Capsules with Supor® Membrane
- Acrodisc® Syringe Filters with Supor® Membrane
- Acro® 50 Vent Devices
- Acro® 50 Vent Filter with Emflon® II Membrane
- Pressure Rinser
- Stainless Steel Forceps
- Sterile Acrodisc® Syringe Filters - Ideal for Scale Up
- VacuCap® & VacuCap PF Sterile Vacuum Filtration Devices
- Vacuum/Pressure Pumps

Ordering Information

Part Number	Description	Pkg	Price	Qty
Supor 100 Membrane Disc Filters, 0.1 µm				
60309	25 mm, plain	100/pkg	NA	0
60310	47 mm, plain	100/pkg	NA	0
60311	90 mm, plain	100/pkg	NA	0
60312	142 mm, tabbed	25/pkg	NA	0
66551	142 mm, no tab	25/pkg	NA	0

60313	293 mm, tabbed	25/pkg	NA	0
66552	293 mm, no tab	25/pkg	NA	0

Supor 200 Membrane Disc Filters, 0.2 µm

60298	13 mm, plain	100/pkg	NA	0
60300	25 mm, plain	100/pkg	NA	0
60301	47 mm, plain	100/pkg	NA	0
66234	47 mm, grid, individual pack (S-Pack)	200/pkg	NA	0
60334	90 mm, plain	100/pkg	NA	0
66549	142 mm, no tab	25/pkg	NA	0
60305	142 mm, tabbed	25/pkg	NA	0
60307	293 mm, tabbed	25/pkg	NA	0
66550	293 mm, no tab	25/pkg	NA	0

Supor 450 Membrane Disc Filters, 0.45 µm

60170	13 mm, plain	100/pkg	NA	0
60172	25 mm, plain	100/pkg	NA	0
60173	47 mm, plain	100/pkg	NA	0
61854	47 mm, grid	100/pkg	NA	0
60043	47 mm, grid, individual-gamma irradiated pack (S-pack)	200/pkg	NA	0
60174	50 mm, plain	100/pkg	NA	0
60206	90 mm, plain	100/pkg	NA	0
60177	142 mm, tabbed	25/pkg	NA	0
66553	142 mm, no tab	25/pkg	NA	0
60179	293 mm, tabbed	25/pkg	NA	0
66554	293 mm, no tab	25/pkg	NA	0

Supor 800 Membrane Disc Filters, 0.8 µm

60109	25 mm, plain	100/pkg	NA	0
60110	47 mm, plain	100/pkg	NA	0
65472	47 mm, grid, sterile	200/pkg	NA	0
60112	90 mm, plain	100/pkg	NA	0
60114	142 mm, tabbed	25/pkg	NA	0
66555	142 mm, no tab	25/pkg	NA	0
60116	293 mm, tabbed	25/pkg	NA	0
66556	293 mm, no tab	25/pkg	NA	0

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