

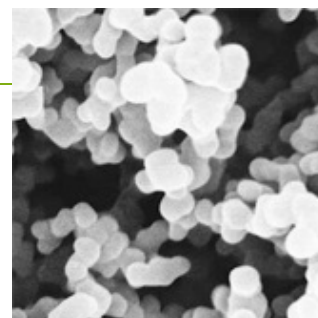


## Supor® PES Membrane Disc Filters

### 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  $\mu\text{m}$

#### Diameter

- ▶ 13 - 293 mm

#### Typical Thickness

- ▶ 0.1  $\mu\text{m}$ : 132  $\mu\text{m}$  (5.2 mils)
- ▶ 0.2  $\mu\text{m}$ : 145  $\mu\text{m}$  (5.7 mils)
- ▶ 0.45 and 0.8  $\mu\text{m}$ : 140  $\mu\text{m}$  (5.5 mils)

#### Typical Water Flow Rate

- ▶ mL/min/cm<sup>2</sup> at 0.7 bar (70 kPa, 10 psi)
  - 0.1  $\mu\text{m}$ : 5
  - 0.2  $\mu\text{m}$ : 26
  - 0.45  $\mu\text{m}$ : 58
  - 0.8  $\mu\text{m}$ : 165

#### Maximum Operating Temperature - Water

- ▶ 100 °C (212 °F)

#### Extractables - Soxhlet Extraction

- ▶ < 4%

#### Minimum Bubble Point - Water

- ▶ 0.2  $\mu\text{m}$ : 3.5 bar (350 kPa, 51 psi)
- ▶ 0.45  $\mu\text{m}$ : 2.5 bar (250 kPa, 36 psi)

▶ 0.8 µm: 1.0 bar (100 kPa, 15 psi)

### 60% IPA/40% H<sub>2</sub>O (v:v)

▶ 0.1 µm: 2.4 bar (240 kPa, 35 psi)

### Biological Safety

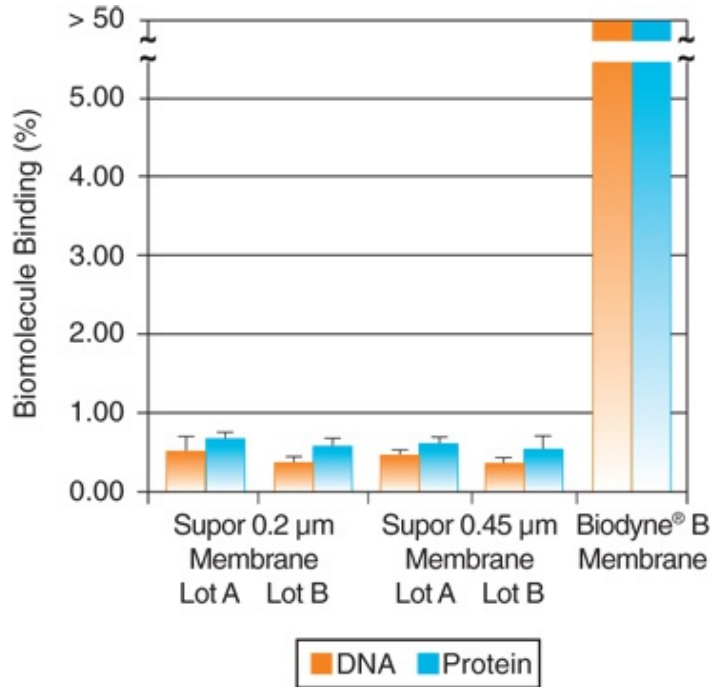
▶ Passes United States Pharmacopeia (USP) Biological Reactivity Test, *In Vivo* <88>

### 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.

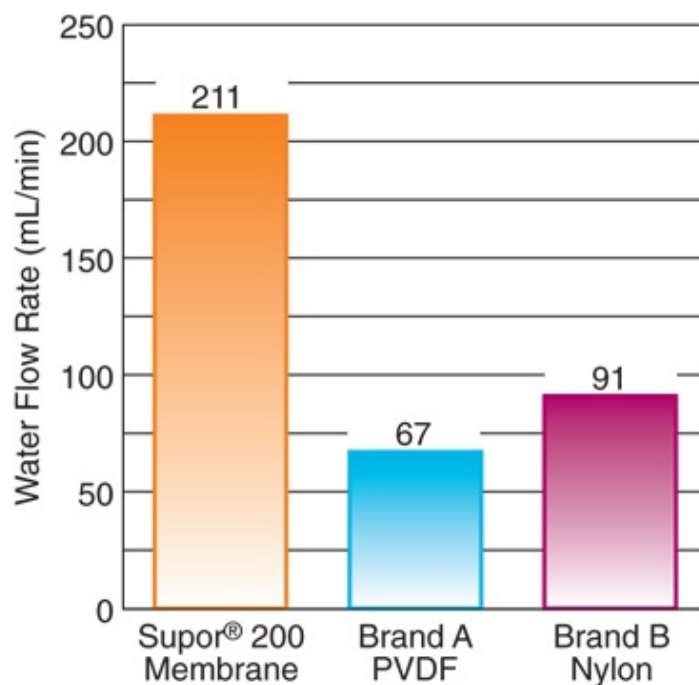
## Performance

### Supor Membrane is Low in Biomolecule Binding



*<sup>125</sup>I-labeled BSA (1.6 µg) or <sup>32</sup>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<sup>®</sup> 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 (0.2 $\mu$ m).

## 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
<b>Supor 100 Membrane Disc Filters, 0.1 <math>\mu</math>m</b>				
60309	25 mm, plain	100/pkg	NA	<input type="text" value="0"/>
60310	47 mm, plain	100/pkg	NA	<input type="text" value="0"/>
60311	90 mm, plain	100/pkg	NA	<input type="text" value="0"/>
60312	142 mm, tabbed	25/pkg	NA	<input type="text" value="0"/>
66551	142 mm, no tab	25/pkg	NA	<input type="text" value="0"/>

60313	293 mm, tabbed	25/pkg	NA	<input type="text" value="0"/>
66552	293 mm, no tab	25/pkg	NA	<input type="text" value="0"/>

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**Supor 200 Membrane Disc Filters, 0.2 µm**

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

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**Supor 450 Membrane Disc Filters, 0.45 µm**

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

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**Supor 800 Membrane Disc Filters, 0.8 µm**

60109	25 mm, plain	100/pkg	NA	<input type="text" value="0"/>
60110	47 mm, plain	100/pkg	NA	<input type="text" value="0"/>
65472	47 mm, grid, sterile	200/pkg	NA	<input type="text" value="0"/>
60112	90 mm, plain	100/pkg	NA	<input type="text" value="0"/>
60114	142 mm, tabbed	25/pkg	NA	<input type="text" value="0"/>
66555	142 mm, no tab	25/pkg	NA	<input type="text" value="0"/>
60116	293 mm, tabbed	25/pkg	NA	<input type="text" value="0"/>
66556	293 mm, no tab	25/pkg	NA	<input type="text" value="0"/>

## Pall Office(s)

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