Supor™ PES membrane disc filters

FOR BIOLOGICAL, PHARMACEUTICAL, AND STERILIZING FILTRATION REQUIREMENTS

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

Certifications

Regulatory qualifications

QA lot release criteria are monitored for compliance to Standard Methods for Examination of Water and Wastewater.

These products are manufactured in our facilities under a quality management system and environment management program approved by an accredited registering body to ISO 9001 and ISO 14001, respectively.

Irradiation details

A quarterly dose audit on the membrane product family is conducted to demonstrate continued effectiveness of the dose deliverance as required in ANSI/AAMI/ISO 11137–2. Non-sterile membranes can be autoclaved at 121°C–123°C at 1.0 bar (15 psi) for 30 minutes.

Technical specifications

Filter media material	Hydrophilic polyethersulfone (PES)
Diameter	13–293 mm
Maximum operating temperature (water)	100°C
Extractables (Soxhlet extraction)	< 4%
Biological safety	Passes United States Pharmacopeia (USP) Biological Reactivity Test, *in vivo* <88>
Sterilization	Provided non-sterile*
Autoclave	121°C–123°C for 30 minutes
Biological tests growth promotion	The membranes demonstrate typical recovery of the target microorganisms listed below as directed per Standard Methods for Examination of Water and Wastewater
Bacterial recovery (product codes 66234 and 68123)	0.2 µm > 90% batch average of *P. aeruginosa* ATCC 14207 on TSA microbiology media (bacterial recovery)
Bacterial retention	0.1 µm produces sterile effluent when challenged with *A. laidlawii* in a double layer; following modified ASTM F838-38

* Product codes 60043, 65472, 66234 and 68123 are provided gamma-irradiated.



Fig 1. Supor™ PES membrane disc filters

Pore size	Typical thickness	Typical water flow rate (mL/min/cm² at 0.7 bar [10 psi])	Minimum bubble point (60% IPA/40% H_2O [v:v])	Minimum bubble point (water)	Wetting time (water)
0.1 µm	132 µm (5.2 mL)	5	2.4 bar (35 psi)	–	≤ 1 second
0.2 µm	145 µm (5.7 mL)	26	–	3.5 bar (51 psi)	≤ 5 seconds
0.45 µm	140 µm (5.5 mL)	58	–	2.5 bar (36 psi)	≤ 1 second
0.8 µm	140 µm (5.5 mL)	165	–	1.0 bar (15 psi)	≤ 1 second

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Ordering information

Supor 100 membrane disc filters, 0.1 µm

Description	Quantity per package	Product code
25 mm, plain	100	60309
47 mm, plain	100	60310
90 mm, plain	100	60311
142 mm, tabbed	25	60312
142 mm, no tab	25	66551
293 mm, no tab	25	66552

Supor 200 membrane disc filters, 0.2 µm

Description	Quantity per package	Product code
13 mm, plain	100	60298
25 mm, plain	100	60300
47 mm, plain	100	60301
47 mm, grid, individual, gamma irradiated pack (S-pack)	200	66234
47 mm, grid, Sentino™ dispenser pack, gamma irradiated	1000	68123
90 mm, plain	100	60334
142 mm, no tab	25	66549
142 mm, tabbed	25	60305
293 mm, no tab	25	60307
293 mm, tabbed	25	66550

Supor 450 membrane disc filters, 0.45 µm

Description	Quantity per package	Product code
13 mm, plain	100	60170
25 mm, plain	100	60172
47 mm, plain	100	60173
47 mm, grid	100	61854
47 mm, grid, individual, gamma irradiated pack (S-pack)	200	60043
50 mm, plain	100	60174
90 mm, plain	100	60206
102 mm, plain	100	60175
142 mm, tabbed	25	60177
142 mm, no tab	25	66553
293 mm, tabbed	25	60179
293 mm, no tab	25	66554

Supor 800 membrane disc filters, 0.8 µm

Description	Quantity per package	Product code
25 mm, plain	100	60109
47 mm, plain	100	60110
47 mm, grid, gamma irradiated	200	65472
90 mm, plain	100	60112
142 mm, tabbed	25	60114
142 mm, no tab	25	66555
293 mm, tabbed	25	60116
293 mm, no tab	25	66556

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