

# Acrodisc® Syringe Filters with Nylon Membrane & Nylaflor™ (Nylon) Membrane Disc Filters

Versatile filter for both aqueous and solvent-based sample filtration



- Excellent chemical compatibility with esters, bases, and alcohols.
- Save time - no prewetting.
- Easy filtration of viscous, particulate-laden samples with the glass fiber prefilter version.
- 13 mm device with minispikes configuration offers low hold up and easy filtration into autosampler vials.
- Prevent spurious peaks on chromatograms and get accurate experimental results. HPLC certified for low levels of UV-absorbing extractables.

## Applications

- Useful for a wide range of applications.
- The Acrodisc PSF GxF syringe filter provides two to four times the throughput of standard prefilter devices.
- Not recommended for acids > 1N or halogenated solvents.
- Acrodisc PSF syringe filter is available in robotic-compatible AutoPack™ packaging for Caliper\*\* Prelude\*, TPWII, and Multi-Dose\* systems and Sotax\* dissolution systems.

## Specifications

*Acrodisc Syringe Filters with Nylon Membrane*

### Materials of Construction

Filter Media: Nylon  
Housing: Polypropylene  
GxF Prefilter: Binder-free borosilicate glass

### Pore Size

0.2 and 0.45 µm

### Effective Filtration Area

4 mm: 0.3 cm<sup>2</sup>  
13 mm: 1.0 cm<sup>2</sup>  
25 mm PSF: 3.9 cm<sup>2</sup>

### Sample Volume

4 mm: < 2 mL  
13 mm: < 10 mL  
25 mm PSF: < 150 mL

### Inlet/Outlet Connections

4, 13, and 25 mm PSF: Female luer lock inlet, male slip luer outlet  
13 mm: Available with minispikes outlet

### Typical Hold-up Volume

(with air purge)  
4 mm: < 10 µL  
13 mm (minispikes): < 14 µL  
13 mm (male luer): < 30 µL  
25 mm PSF: < 125 µL  
25 mm PSF GxF: < 150 µL

### Maximum Operating Temperature

55 °C (131 °F)

### Maximum Operating Pressure

4 mm: 5.2 bar (520 kPa, 75 psi)  
13 mm: 6.9 bar (690 kPa, 100 psi)  
25 mm PSF: 4.1 bar (410 kPa, 60 psi) at 21 - 24 °C (70 - 75 °F);  
2.1 bar (210 kPa, 30 psi) at 55 °C (131 °F)

### Typical Water Flow Rate

mL/min at 2.1 bar (210 kPa, 30 psi)  
13 mm, 0.2 µm: 10  
13 mm, 0.45 µm: 15  
25 mm PSF, 0.2 µm: 115  
25 mm PSF GxF/0.45 µm: 215

*Nylaflor Membrane Disc Filters*

### Filter Media

Hydrophilic nylon

### Pore Size

0.2 and 0.45 µm

### Typical Water Flow Rate

mL/min/cm<sup>2</sup> at 0.7 bar (70 kPa, 10 psi)  
0.2 µm: 12  
0.45 µm: 16

### Maximum Operating Temperature - Water

100 °C (212 °F)

### Minimum Bubble Point - Water

0.2 µm: 3.4 bar (340 kPa, 49 psi)  
0.45 µm: 2.6 bar (260 kPa, 37 psi)

### Chemical Compatibility

For detailed information about chemical compatibility by membrane type, see the Chemical Compatibility Chart on page 366 - 367.

\*\*Caliper Life Sciences was previously Zymark Corporation.



## Ordering Information

### Acrodisc® Syringe Filters with Nylon Membrane, 4 mm

Part Number	Description	Pkg
4484	0.45 µm	250/pkg 750/cs

### Acrodisc Syringe Filters with Nylon Membrane, 13 mm, Minispike

Part Number	Description	Pkg
4550	0.2 µm, minispike outlet	100/pkg 300/cs
4551	0.45 µm, minispike outlet	100/pkg 300/cs
4546	0.45 µm, minispike outlet	1000/pkg

### Acrodisc Syringe Filters with Nylon Membrane, 13 mm

Part Number	Description	Pkg
4427	0.2 µm, male slip luer outlet	100/pkg 300/cs
4540	0.2 µm, male slip luer outlet	1000/pkg
4426	0.45 µm, male slip luer outlet	100/pkg 300/cs
4541	0.45 µm, male slip luer outlet	1000/pkg

### Acrodisc PSF Syringe Filters with Nylon Membrane, 25 mm

Part Number	Description	Pkg
AP-4437	0.2 µm, AutoPack™ tubes	25/pkg 200/cs
AP-4436	0.2 µm	50/pkg 200/cs
AP-4522	0.2 µm	1000/pkg
AP-4517	0.45 µm, AutoPack tubes	25/pkg 200/cs
AP-4438	0.45 µm	50/pkg 200/cs
AP-4502	0.45 µm	1000/pkg

### Acrodisc PSF GxS Syringe Filters with Nylon Membrane, 25 mm

Part Number	Description	Pkg
AP-4548	GxS/0.45 µm, AutoPack tubes	25/pkg 200/cs
AP-4549	GxS/0.45 µm	50/pkg 200/cs
AP-4528	GxS/0.45 µm	1000/pkg

### Nylaflo™ (Nylon) Membrane Disc Filters, 0.2 µm

Part Number	Description	Pkg
66600	13 mm	100/pkg
66601	25 mm	100/pkg
66602	47 mm	100/pkg
66603	90 mm	100/pkg

### Nylaflo (Nylon) Membrane Disc Filters, 0.45 µm

Part Number	Description	Pkg
66606	13 mm	100/pkg
66607	25 mm	100/pkg
66608	47 mm	100/pkg
66609	90 mm	100/pkg

### Related Products

47 mm Glass Filter Funnels	232
Stainless Steel Forceps	252
SolVac® Filter Holder	230
Vacuum/Pressure Pump	319
13 mm Plastic Swinney Filter Holder	312
25 mm Easy Pressure Syringe Filter Holder	313
13, 25, 47 mm Filter Holders, Stainless Steel	331

