

# Advantec® Disposable Syringe Filters

## Minimize sample holdup and maximize recovery

- Nonpigmented acrylic or polypropylene (PP) housings feature integral filter sealing to avoid the risk of contamination from pigments and adhesives
- Housings have standard luer connectors, except for 50-mm filters which have 7 to 13.5 mm hose barb connectors



**Mixed Cellulose Ester Filters** are hydrophilic with high porosity and fast flow rate. Ideal for general-purpose filtration of aqueous solutions. Offer higher protein binding than cellulose acetate.

**Cellulose Acetate Filters** feature hydrophilic membranes with low protein binding; suitable for aqueous protein solutions. The filters are nitrate-free, making them suitable for groundwater filtration.

**Nylon Filters** are strong hydrophilic filters compatible with aqueous and alcoholic solutions and most HPLC solvents. They offer minimal extractables and high binding capacity for proteins, DNA, and RNA.

**PTFE Hydrophilic Filters** are versatile, characterized by very good chemical resistance, and are compatible with many aqueous and organic solvent mixtures used in HPLC, including acetonitrile/water.

**PTFE Hydrophobic Filters** with a laminated polypropylene support can be used to sterilize and clarify strong acids and solvents. Also typically used in gas filtration or venting applications.

**PES Polyethersulfone (PES) Filters** are hydrophilic and low protein-binding; ideal for pharmaceutical and biological applications where sample recovery and low extractables are essential. Also used for filtration of high-contaminant or viscous liquids.

### Membrane Specifications

Diameter	Housing	Filtration area	Sample volume	Holdup volume	Max temp	Max pressure psi (bar)
3 mm	PP	0.06 cm <sup>2</sup>	<2 mL	<0.01 mL	140°F (60°C)	74 (5.1)
13 mm	PP	0.9 cm <sup>2</sup>	<10 mL	<0.03 mL	140°F (60°C)	74 (5.1) <sup>†</sup>
25 mm	PP	4.0 cm <sup>2</sup>	<100 mL	<0.1 mL	140°F (60°C)	74 (5.1) <sup>†</sup>
25 mm	Acrylic	4.0 cm <sup>2</sup>	<100 mL	<0.1 mL	113°F (45°C)	74 (5.1)
30 mm	PP	4.8 cm <sup>2</sup>	<120 mL	<0.1 mL	356°F (180°C)	127 (8.8)
50 mm	PP	19.6 cm <sup>2</sup>	>100 mL	<3.0 mL	140°F (60°C)	49 (3.4)

<sup>†</sup>Max pressure for PTFE hydrophilic is 56 psi (3.9 bar).

Pore size	Membrane dia	Housing	Sterile	Cat. no.	Qty/pk	Price/pk
<b>Mixed cellulose ester membrane filters</b>						
0.20 µm	25 mm	Acrylic	No	<a href="#">GH-81054-24</a>	50	
			Yes	<a href="#">GH-81054-26</a>		
0.45 µm	25 mm	Acrylic	No	<a href="#">GH-81054-28</a>	50	
			Yes	<a href="#">GH-81054-72</a>		
<b>Cellulose acetate membrane filters</b>						
0.20 µm	3 mm	PP	Yes	<a href="#">GH-81054-00</a>	100	
0.20 µm	13 mm	PP	No	<a href="#">GH-81054-06</a>	100	
			Yes	<a href="#">GH-81054-08</a>		
0.45 µm	13 mm	PP	No	<a href="#">GH-81054-74</a>	100	
			Yes	<a href="#">GH-81054-76</a>		
0.20 µm	25 mm	Acrylic	No	<a href="#">GH-81054-30</a>	50	
			Yes	<a href="#">GH-81054-32</a>		
0.45 µm	25 mm	Acrylic	No	<a href="#">GH-81054-34</a>	50	
			Yes	<a href="#">GH-81054-36</a>		
0.80 µm	25 mm	Acrylic	No	<a href="#">GH-81054-38</a>	50	
			Yes	<a href="#">GH-81054-40</a>		
0.20 µm	50 mm	PP	No	<a href="#">GH-81054-60</a>	10	
			Yes	<a href="#">GH-81054-62</a>		
0.45 µm	50 mm	PP	No	<a href="#">GH-81054-64</a>	10	
			Yes	<a href="#">GH-81054-66</a>		

Pore size	Membrane dia	Housing	Sterile	Catalog number	Qty/pk	Price/pk
<b>Nylon membrane filters</b>						
0.22 µm	13 mm	PP	No	<a href="#">GH-81054-20</a>	100	
				<a href="#">GH-81054-22</a>		
0.22 µm	25 mm	PP	No	<a href="#">GH-81054-80</a>	100	
				<a href="#">GH-81054-82</a>		
0.45 µm	30 mm	PP	No	<a href="#">GH-81054-52</a>	100	
				<a href="#">GH-81054-54</a>		
<b>PTFE hydrophilic membrane filters</b>						
0.20 µm	13 mm	PP	No	<a href="#">GH-81054-12</a>	100	
				<a href="#">GH-81054-14</a>		
0.20 µm	25 mm	PP	No	<a href="#">GH-81054-42</a>	100	
				<a href="#">GH-81054-44</a>		
0.50 µm	3 mm	PP	No	<a href="#">GH-81054-02</a>	100	
				<a href="#">GH-81054-16</a>		
0.20 µm	13 mm	PP	No	<a href="#">GH-81054-18</a>	100	
				<a href="#">GH-81054-46</a>		
0.50 µm	25 mm	PP	No	<a href="#">GH-81054-48</a>	50	
				<a href="#">GH-81054-48</a>		
0.20 µm	50 mm	PP	No	<a href="#">GH-81054-68</a>	10	
			Yes	<a href="#">GH-81054-70</a>		
0.50 µm	50 mm	PP	No	<a href="#">GH-81054-78</a>	10	
<b>PES membrane filters</b>						
0.20 µm	25 mm	Acrylic	Yes	<a href="#">GH-81054-92</a>	50	
0.45 µm				<a href="#">GH-81054-94</a>		

### Whatman™ 50-mm In-Line Filters

#### Versatile and cost-effective for large-volume samples

Filter up to one liter with one device; filtration area is 16 cm<sup>2</sup>. Used with a syringe in-line (6 to 10 mm hose). Autoclavable. Hold up volume with air purge is less than 0.1 mL. Maximum operating pressure is 60 psi (4.1 bar).

**PTFE** membrane filters are ideal for chemically aggressive solutions, reagents, and organic solvents. Use as protective vents or for in-line filtration and isolation applications. Filter 29700-76 features a polypropylene prefilter for use with heavily contaminated samples.

**PES** aqueous solution filters are low protein binding and contains no surfactants. A glass microfiber prefilter extends the life of the membrane and effectively filters heavily contaminated samples.

**Polypropylene** filters have excellent flow rate characteristics and are ideal for filtering up to 1 L of aqueous and solvent samples.



(Syringe not included)

Membrane	Pore size	Sterile	Catalog number	Qty/pk	Price/pk
PTFE	0.1 µm	No	<a href="#">GH-29700-70</a>	10	
	0.2 µm	No	<a href="#">GH-29700-72</a>		
	0.45 µm	No	<a href="#">GH-29700-74</a>		
	1.0 µm	No	<a href="#">GH-29700-76</a>		
PES/GMF <sup>†</sup>	0.2 µm	Yes	<a href="#">GH-29700-78</a>	10	
	0.45 µm	Yes	<a href="#">GH-29700-80</a>		
GMF/nylon	1.0 µm	Yes	<a href="#">GH-29700-82</a>	10	
	5.0 µm	No	<a href="#">GH-29700-86</a>		
	10.0 µm	No	<a href="#">GH-29700-88</a>		

<sup>†</sup>GMF = glass microfilter