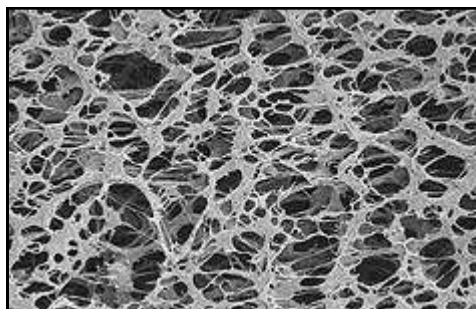


## PES (Polyethersulfone) Membranes

PES (polyethersulfone) membrane filters are composed of polyethersulfone and manufactured within a tight specification range to ensure a uniform pore structure for low binding applications where reliable fast flow rates and high throughputs are required. PES (polyethersulfone) filters are hydrophilic and can withstand high temperatures 135°C (275°F) without membrane degradation as required for autoclaving applications. They may provide better strength than cellulosic-type membranes.



PES (polyethersulfone) filters are inert which provide extremely low extractable levels in critical sterilization applications such as protein and enzyme filtrations, tissue culture media sterilization, cold sterilization, biological fluid filtration and other sterilization applications where maximum throughputs and fast flow rates are the critical factors.

Features	Typical Applications
<ul style="list-style-type: none"> <li>• Very Low Protein Binding</li> <li>• Fast Flow Rates</li> <li>• Low Extractables</li> <li>• Wide Chemical Compatibility Range</li> <li>• Strength and Dimensional Stability</li> </ul>	<ul style="list-style-type: none"> <li>• Protein and enzyme filtration sterilization</li> <li>• Biological fluid filtration sterilization</li> <li>• Tissue culture media sterilization</li> <li>• Pharmaceutical sterilizing filtration</li> <li>• Environmental water studies</li> </ul>

Specifications	
<b>Sterilization</b>	Gamma Irradiation, Ethylene Oxide (EtO), Autoclaving or Live Passed
<b>USP Class VI Testing</b>	Passed
<b>Thickness</b>	110 - 150 µm
<b>Extractables</b>	<0.2% (<0.0015 mg/cm <sup>2</sup> )
<b>BSA Protein Binding</b>	< 20 µg/cm <sup>2</sup>
<b>Maximum Operating Temperature</b>	130° C (266° F)
<b>Sealing Compatibility</b>	Ultrasonic, Heat, Radio Frequency and Insert Molding
<b>Pore Size Range</b>	0.03 to 20 µm

Ordering Information	
Description	Part Number
13mm 0.02µm PES Filter Membrane. 100 Pack	<b>PE0213</b>
13mm 0.45µm PES Filter Membrane. 100 Pack	<b>PE4513</b>
25mm 0.02µm PES Filter Membrane. 100 Pack	<b>PE0225</b>
25mm 0.45µm PES Filter Membrane. 100 Pack	<b>PE4525</b>
47mm 0.02µm PES Filter Membrane. 100 Pack	<b>PE0247</b>
47mm 0.45µm PES Filter Membrane. 100 Pack	<b>PE4547</b>
90mm 0.02µm PES Filter Membrane. 25 Pack	<b>PE0290</b>
90mm 0.45µm PES Filter Membrane. 25 Pack	<b>PE4590</b>
142mm 0.02µm PES Filter Membrane. 25 Pack	<b>PE02142</b>
142mm 0.45µm PES Filter Membrane. 25 Pack	<b>PE45142</b>

