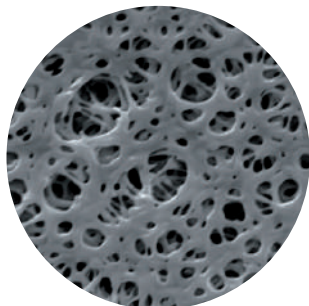


## Polyethersulfone (PES) Membrane



GVS Polyethersulfone (PES) Filtration Membrane is hydrophilic and cast from pure polyethersulfone polymer. It is designed to remove particulates during general filtration and its low protein and drug binding characteristics make it ideally suited for use in life science applications.

### Product Uniformity and High Sensitivity Maximize Performance

This strong, microporous film asymmetric membrane is constructed from a high-temperature polyethersulfone polymer that is acid and base resistant. Its strength and durability are advantageous during usage that involves aggressive handling or automated equipment. GVS PES Filtration Membrane is naturally hydrophilic without

added wetting agents and has low extractables.

Due to its inherent uniform porosity and controlled pore size, GVS PES Filtration Membrane efficiently removes particulates from solutions during general filtration. Additionally, its low protein and drug binding characteristics maximize recovery of critical drugs used in I.V. therapy, chemotherapy and open-heart surgery.

### Features & Benefits

- **Hydrophilic:** Eliminates the need for wetting agents that can potentially interfere with analyses
- **Low extractables:** Ensures test results will not be compromised by wetting agents or other extractables
- **Low drug and protein binding:** Maximizes recovery of critical drugs or proteins
- **Wide range of pore sizes:** Pore size range of 0.03  $\mu\text{m}$  to 8.0  $\mu\text{m}$  enables specific pore size selection for given applications
- **Superior burst strength:** Protects the integrity of the membrane under high pressure
- **Lot-to-lot consistency:** Quality checks, both down and across the membrane, ensure dependable results every time

### Typical Applications

- Protein and enzyme filtration and sterilization
- Biological fluid filtration and sterilization
- Pharmaceutical sterilization
- Environmental water studies

### Performance

Pore Size ( $\mu\text{m}$ )	Flow Time (s)	Volume/Vacuum (mL/ in Hg)	Flow Rate (mL/min/cm <sup>2</sup> @ 10 psi)	Bubble Point (psi)
0.03	200-500	250/20	3.18-7.95	90-110
0.1	100-200	250/20	7.95-15.91	70-90
0.2	35-70	250/20	22.72-45.45	50-70
0.4	20-40	250/20	39.77-79.53	35-50
0.6	12-25	250/20	63.63-132.55	21-32
0.8	80-160	500/5	80-159	13-28
1.2	65-130	500/5	98-196	11-22

### Ordering information

Dimensions Packaging	13 mm 100/pk	25 mm 100/pk	47 mm 100/pk	47 mm 200/pk	90 mm 25/pk	142 mm 25/pk	293 mm 25/pk	200x200 mm 5/pk	30 cmx3 m 1/pk
0.03 $\mu\text{m}$	3032875	3032876	3029505		3018505			1235748	3057106
0.1 $\mu\text{m}$			1214756		1222230			1225881	3026365
0.22 $\mu\text{m}$		1214193	1214465	1226158*	1214920	1214169	1214759	1223871	1226664
0.45 $\mu\text{m}$		1214532	1214475	1226159*	1215368	1214170	1214760	1225882	1226665
0.65 $\mu\text{m}$		1215238					1224490	1225883	1225985
0.8 $\mu\text{m}$		1214604	1214568		1214669	1214171		1225884	3037376
1.2 $\mu\text{m}$		1222267	1221008		1224492			1223340	1242278
5.0 $\mu\text{m}$			1215396		1224496			1236292	
8.0 $\mu\text{m}$								1225885	

\*Sterile