

Hydrophilic PES Membrane



Description

The qpore polyethersulfone (PES) membranes are produced using a unique process, and compared to other membrane varieties, PES membranes have very good water wettability, so PES membranes have extremely high water flux. PES membranes exhibit very low protein adsorption capacity and are widely used in sterilization and filtration of liquids and filtration and clarification in food, medicine and other fields.

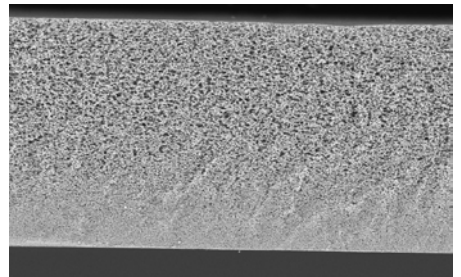
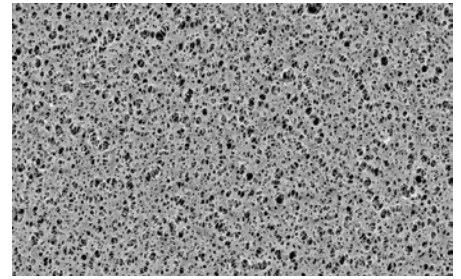
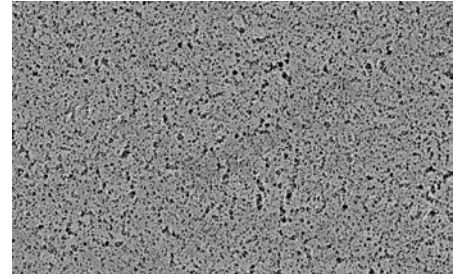
Features

The surface of the hydrophilic PES membrane is uniform, the pore size distribution is narrow, and the separation accuracy is high. The membrane cross-section is a network sponge structure, which has higher anti-fouling ability than the ordinary membrane cross-section finger pore structure, and at the same time, this sponge structure has high mechanical strength, breaking strength > 400cN, and longer service life.

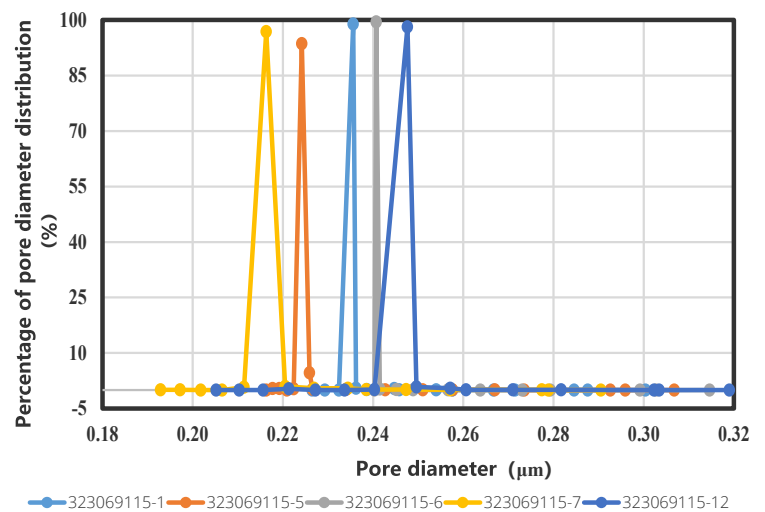
- High strength
- High flow rate
- Low extractable
- Low protein binding
- Retention rate:
 - 0.22 > 7 LRV (*Brevundimonas diminuta*)
 - 0.45 > 7 LRV (*Serratia marcescens*)
- The pore diameter distribution is narrow
- Sterilization: autoclaving, EO or gamma

Applications

- General filtration
- Sterile filtration
- IV therapy
- Pharmaceutical filtration
- Bacterial isolation



Pore Diameter Distribution



0.22 μm PES Membrane

Specification

Membrane Material	Pore Size (μm)	Water Bubble Point (psi)	Water Flow Rate (10psi)	Thickness (μm)
PES	0.05	≥ 43.5 (60%IPA)	≥ 3 ml/min/cm ²	100 - 130
	0.1	≥ 26.1 (60%IPA)	≥ 10 ml/min/cm ²	
	0.22	≥ 50.75	≥ 15 ml/min/cm ²	
	0.45	≥ 27.6	≥ 35 ml/min/cm ²	
	0.65	≥ 23.2	≥ 50 ml/min/cm ²	
	0.8	≥ 17.4	≥ 70 ml/min/cm ²	
	1.2	≥ 14.5	≥ 100 ml/min/cm ²	
	3.0	≥ 7.25	≥ 60 ml/min/cm ² (2.9psi)	
	5.0	≥ 3.625	≥ 150 ml/min/cm ² (2.9psi)	