POLYFIL PES Sterilizing filters for liquids

POLYFIL PES utilises the unique properties of a patented microbially retentive polyethersulphone membrane (0,20um) to provide sterile filtration to meet the specific needs of the pharmaceutical and food and beverage industry.

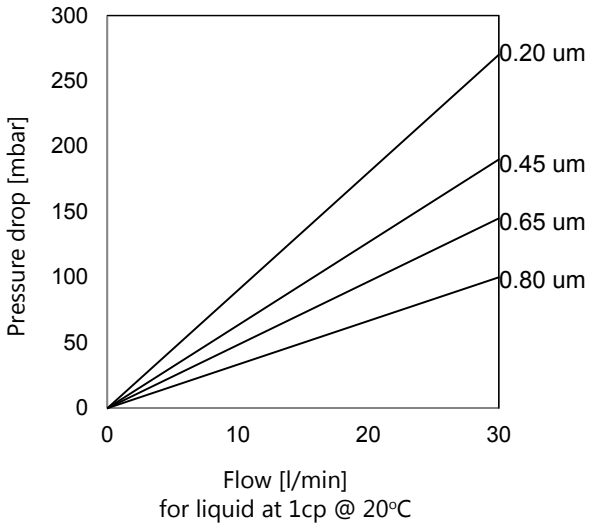
POLYFIL PES membrane has an asymmetrical pore structure with a high voids volume, which offers high dirt holding capacity, resulting in higher throughputs and higher flow rates than symmetrical membranes.

POLYFIL PES filters have low chemical and protein binding characteristics which results in minimal levels of material lost to adsorption. They can handle a wide range of liquids across the full pH range including many organic solvents.

The filter cartridges have low extractable levels. The membrane is inherently hydrophilic and the filters can be easily and repeatedly integrity tested.

- Micron rating range from 0,20 to 0,80 micron.
- Naturally hydrophilic polyethersulphone membrane.
- Microbially retentive and validited to HIMA guidelines.
- Wide range of chemicals compatibility.
- Low adsrorption of proteins.
- Can be repeatedly stem sterilised.

Pressure drop and flow rates for 10″ element (20°C)



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CHEMTECH
PROCESS SEPARATION & ENGINEERING

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Structural materials

Membrane:	Polyethersulphone
Support Layer:	Polypropylene
Drainage Layer:	Polypropylene
Core/Cage:	Polypropylene
End Caps:	Polypropylene

Filtration area

0.63 m^2 10" (250 mm)

Maximum recommend continuous operating temperature

70°C

Maximum pressure drop

5 bar @ 20°C

Sterilization

Cartridge can be repeatedly steam sterilised in situ or autoclaved up to 130°C.

Sanitization

Can be sanitised with hot water up to 90°C and is compatible with a wide a range of chemicals.

Ordering information

Type	Length [inch]	Micron rating [um]	End cap	O-rings
PLFPS	2.5= 25	0,20 = 020	226 o-ring/flat= 6	E = EPDM
	5 = 5	0,45 = 045	222 o-ring/flat= 3	S = Silicone
	1 = 10	0,65 = 065	226 o-ring/flat= 6	V = Viton
	2 = 20	0,80 = 080	the other = X	P = PFA/Viton
	3 = 30			N = NBR
	4 = 40			

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