

Tec - Pleat PES Membrane Cartridge



Tec-Pleat PES Features & Benefits

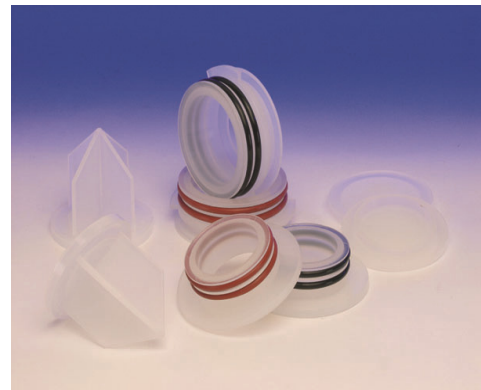
- Integrity testable, Bubble Point and Diffusional Flow data supplied.
- Individually lot numbered with unique serial number for traceability.
- Can be steam sterilised and repeatedly hot water sanitised.
- Excellent chemical compatibility and resistant to hydrolysis.
- Low protein binding, do not strip out proteins or remove colours when used for beverage filtration.
- Naturally hydrophilic, no wetting agents needed and very low levels of extractables.
- Meets current USP Class VI plastics test and CFR Title 21 for food contact.

Tec-Pleat PES filter cartridges are microbiologically rated pleated filter cartridge based on a naturally hydrophilic, mirrored asymmetric Polyethersulphone membrane.

Tec-Pleat PES filter cartridges have a multi-layer construction, with an integral microfibre pre-filter layer and polypropylene support and drainage layers. The high surface area, 0.6m² EFA, and integral pre-filter ensures high flow rates with low pressure drops and long service life.

PES membranes are naturally hydrophilic so contain no wetting agents, together with the thermal bonding assembly process this results in a cartridge with very low levels of extractables, and when supplied pre-rinsed Tec-Pleat PES filter cartridges have fast rinse up times to 18 MQ.cm. Another feature of PES membranes is low protein binding, meaning that most of the proteins present in the feed remain in the filtrate.

Tec-Pleat PES filter cartridges are available in a wide range of length and endcap configurations to retrofit most industry standard applications.



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for all your filter requirements

Tec-Pleat PES Membrane

Dimensions

Outside Diameter: 69mm
 Inside Diameter: up to 32mm
 Lengths: 5" to 70"

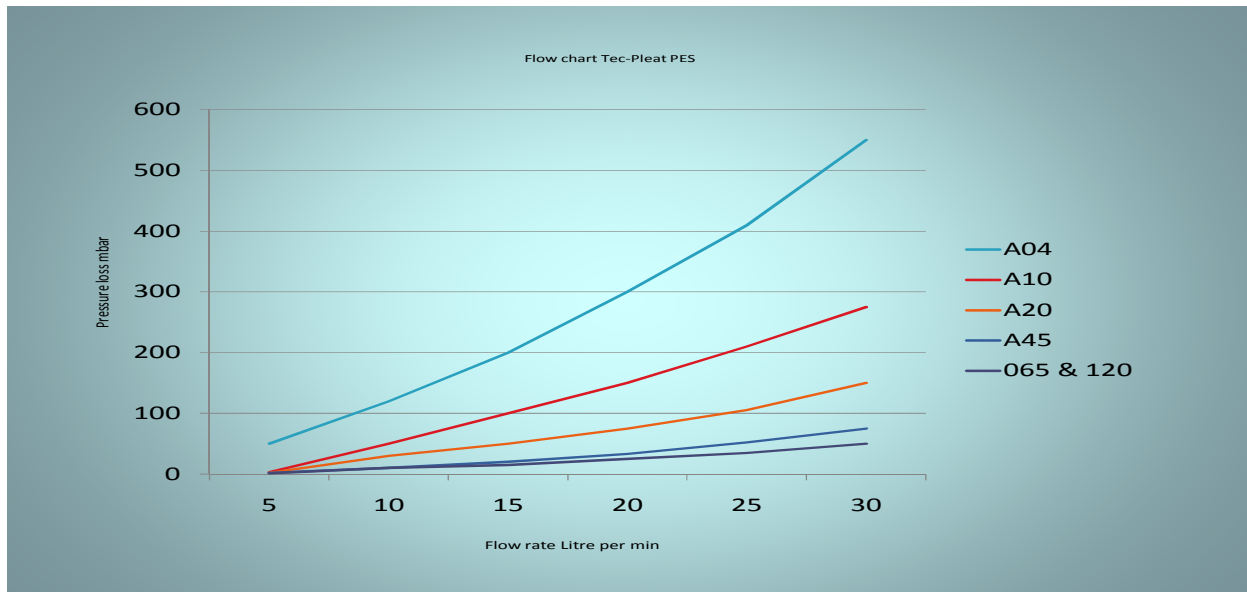
Operating Conditions

Recommended Maximum ΔP:
 Forward Flow 4 bar @ 20°C
 2.8 bar @ 65°C
 1 bar @ 80°C
 Reverse Flow 3 bar @ 20°C

Technical Data

Sanitisation
 Steam or Autoclave: 121°C for 15 minutes
 with steam ring, 30 cycles)
 Hot Water Sanitisation: 90°C for 30 minutes repeatedly

| Integrity Test (water) | | | |
|------------------------|------------------|----------------|-----|
| Pore Size Micron | Bubble Point psi | Diffusion Rate | |
| | | cc/min | psi |
| 0.04 | 45 | <36 | 37 |
| 0.1 | 35 | <56 | 28 |
| 0.2 | 27 | <35 | 22 |
| 0.45 | 21 | <24 | 17 |
| 0.65 | 12 | <20 | 10 |



Part Numbers

| Code | Micron rating | Length | End cap Style | Gasket | Grade | Options |
|-------|-------------------|--------|----------------------|--------------|--------------------|---------------|
| TPPES | A04 = 0.04 micron | 4 7/8 | DO = DOE | E = EPDM | G = General | S = SS insert |
| | A10 = 0.1 micron | 9.7/8 | C G= 213/recess | N = Nitrile | B = Beverage | |
| | A20 = 0.2 micron | 10 | TC = 222/flat | S = Silicone | E = Electronics | |
| | A45 = 0.45 micron | 20 | TF = 222/fin | T = FEP | P = Pharmaceutical | |
| | 065 = 0.65 micron | 30 | SC=226/flat | V = Viton | | |
| | 120 = 1.2 micron | 40 | SF=226/fin AZ=224 | | | |

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