

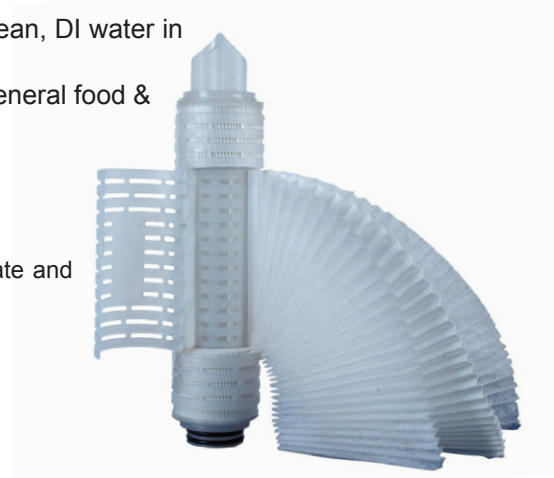


Poly-Ray Pleated Filter Cartridge with PP Microfiber media

The Poly-Philic pleated filter cartridge is made of PES (polyestersulfone) membrane with a mirrored asymmetric structure that ensure lower pressure drop at high flow rate, and extended service life. PES membrane has excellent chemical resistance and hydrophilization which is suitable for circulated filtration of BEO, clean, DI water in semiconductor industry & photoelectric industry and the terminal fine filtration of general food & beverage factory.

Features & Benefits

- High porous asymmetric membrane that ensure lower pressure drop, high flow rate and extended service life.
- End Caps and connectors are sealed by thermal bond, free binder.
- Manufactured in clean room, highly clean cartridge.
- Pre-flush with 18 Megohm-cm DI water for 30 minutes, TOC contentis lower than 40 ppb.
- Polyestersulfone membrane is permanently hydrophilic membrane without use of aditives, surface active agents or post-treatments.
- Integrity test is available.
- Certificated by FDA.
- Available pore size rating 0.04 micron - 1.2 micron.
- In compliance with the latest EC Directive for food contact.



Operating Conditions

- Maximum operating forward pressure:
 - 20°C: 5.5 kg/cm²
 - 80°C: 1.7 kg/cm²
- Maximum operating temperature: 90 °.
- Sterilization:
 - Autoclave: 121°C, 30 min, 10 times
 - Steam: 121°C, 30 min, 10 times
 - Hot water: 80°C, 30 min, 30 times

Product specifications

- Pore size: 0.04, 0.1, 0.2, 0.45, 0.65, 1.2 micron.
- Membrane: PES (Polyethersulfone) hydrophilic membrane.
- Support: PP
- Core & End Cap: High Strenght PP (Stainless Steel insert end cap available).
- O-ring Material: EPDM, Buan N, Silicone, Viton, PFA, encapsulated Viton.

Applications of product

- Use in clean and rinse process in photoelectric industry.
- BOE, photoresists of filtration.
- Terminal fine filtration of DI water system.
- Terminal fine filtration of food and beverage.

- Filtration Area: Poly Philic PES = 0.55 m² / 10"
- Poly Philic E-PES = 0.92 m² / 10"
- Poly Philic Plus PAX = 0.8 m² / 10"
- Length: 10", 20", 30, 40"
- Inner Diameter: 28 mm
- Outer Diameter: PES.PAX= 69mm; E-PES= 80mm; N-PES= 64mm.



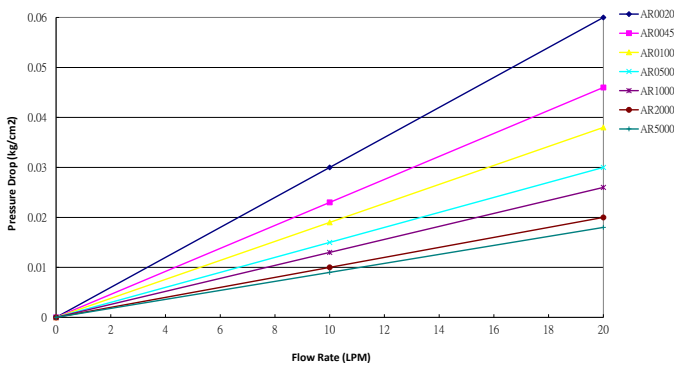
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Efficiency of Filtration

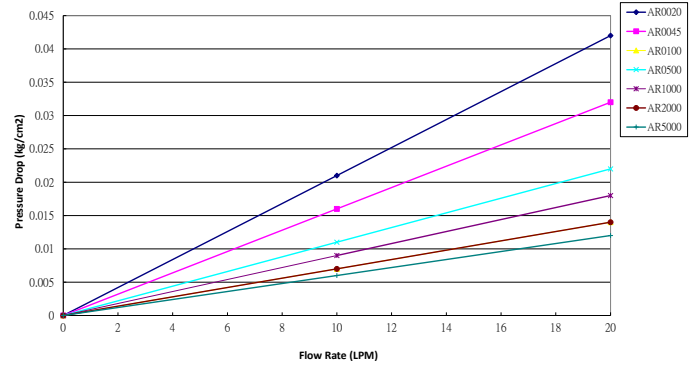
spec.	Retention Efficiency (%)							
	0.2 micron	0.3 micron	0.5 micron	1.0 micron	5.0 micron	10 micron	20 micron	50 micron
AR0020	>99.9	>99.9	>99.9	>99.9	>99.9	>99.9	>99.9	>99.9
AR0045	62.3	71.9	>99.9	>99.9	>99.9	>99.9	>99.9	>99.9
AR0100	30.2	67.1	73.9	>99.9	>99.9	>99.9	>99.9	>99.9
AR0500	-	-	46.8	87.3	>99.9	>99.9	>99.9	>99.9
AR1000	-	-	-	53.9	81.5	>99.9	>99.9	>99.9
AR2000	-	-	-	-	59.3	86.9	>99.9	>99.9
AR5000	-	-	-	-	-	79.8	>89.9	>99.9

* Multi-pass test

AR Initial Pressure Drop



E-AR Initial Pressure Drop



Ordering Information

