

PORNON (Nylon membrane)

Description

PORNON cartridges are made of high purity grade of nylon membranes for use in final filtration where high purity and efficient particles removal is needed.

The intrinsically hydrophilic nature of nylon membranes result in easy wetting across the membrane.

Hydrophilic nylon membrane and pure polypropylene construction provides excellent chemical compatibility and suitable for wide range of applications.



Features

- Highly hydrophilic property
- Suitable for water cleaning process
- No pre-wetting
- Good chemical compatibility
- Long life time
- Low extractable

Applications

Electronic Industry	DI water for semi-conductor
General Process Industry	Liquid clarification, re-circulating fluid, DI water
Chemical Industry	Photo-resist

Specifications

Dimension & Structure	Length	9.75", 10", 19.65", 20", 29.5", 30" 39.5", 40" / 250, 254, 500, 508, 750, 762, 1000, 1016 mm
	ID	30 mm
	OD	68 mm
	Effective filtration area	0.60 m ² - General & beverage industry, pharmaceutical & biological industry
Materials of Construction	Filtration media	Nylon membrane
	Support layers	Polypropylene
	Core & case	Polypropylene
	O-ring & Gaskets	Silicone, EPDM, Viton, TEV
Operating Conditions	Maximum differential pressure	36.3 psid / 2.5 bar at 60 °C 69.6 psid / 4.8 bar at 30 °C
	Maximum operating temperature	176 °F / 80 °C
	Sterilization	In situ steam or autoclave to 121 °C (30 minute cycles) for a maximum accumulated exposure of 120 hours at Max. differential pressure 15 psig / 1.0 bar
	Pre-rinsing & Rinse-up	Cartridge will rinse-up to 18 megaohm-cm with a minimum of throughput.

Bubble Point for 10 inch Cartridge (Single layer)

Pore size (μm)	0.1	0.2	0.45
Bar	> 3.1	> 2.1	> 0.8
Psi	> 45.6	> 30.9	> 11.8
Measured	In Water		

Pressure Drop vs. Water Flow Rate

