PolymidPure Nylon 66 Pleated Cartridge Filter

Nylon 6,6 Membrane Pleated Cartridge Filter.



Description

PolymidPure Nylon 66 membrane pleated cartridge filter use a controlled porosity and naturally hydrophilic Nylon 66 membrane contains no wetting agents. High quality all-polypropylene components and high strength Nylon 66 membrane with polyester support layer provide excellent endurance versus thermal, hydraulic stress and meet the requirements of most applications. PolymidPure use double 0.2μm membrane is a sterilizing.

Reliability

From raw materials purchase, transport and storage to production, all operations follow ISO 9001 quality management system. PolymidPure manufactured, tested and packaged in a clean room to ensure product cleanliness. Each individual filter is integrity tested.

Compatibility

PolymidPure cartridge filters are sealed using thermal bonding process, contain no adhesive and surfactant, it can provide broad chemical compatibility and low extractable levels at high temperature.

Economy

The Optimized structure of cartridge filters maximize the effective filtration area to achieved higher flow rate, life time and economy.

Specifications

Materials of Construction

Filter membrane	Nylon 66
Supports	Polypropylene
Cage/End Caps	Polypropylene
Core	Polypropylene/SS 316L
Adaptor	Polypropylene
O-rings	Please refer to the ordering info.

Operating Parameters

Maximum Operating Temperature	80 ℃
Maximum Differential Pressure (forward)	5.2bar@25 ℃
Maximum Differential Pressure (reverse)	2.1bar@25 ℃

Filter Dimensions

Outer Diameter	69.0mm
Inner Diameter	33.0mm
Filtration Area*	≥0.64m²/10inch

Safety

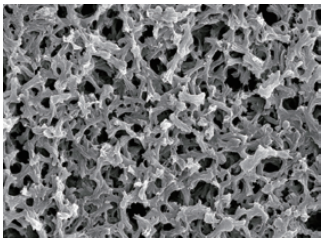
Bacterial Endotoxin	≤0.25EU/mL
Extractable	≤40mg/10inch

Sterilizable

Autoclave	124 ℃,30min, 30cycles
	134 ℃,20min, 15cycles
Steam In-Place	124 ℃,30min, 30cycles
	134 ℃,20min, 15cycles

Regulatory Compliance

FDA 21 CFR 177
ISO 10993-Part 1, 5
EN 285:2015
Regulation (EC) No 1935/200



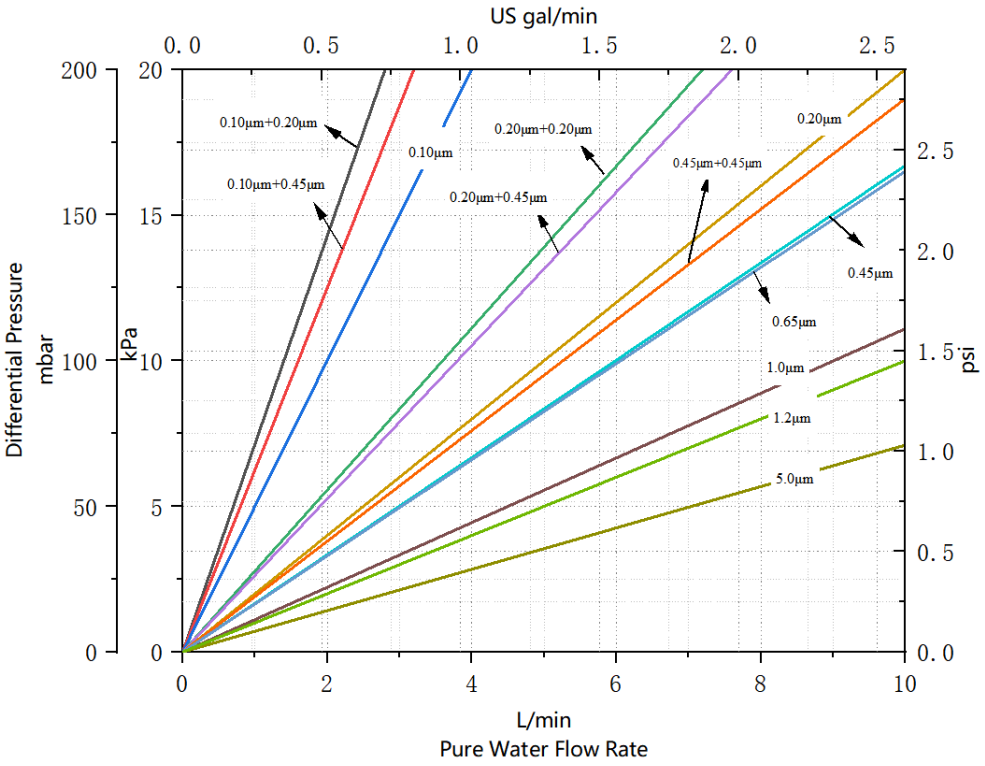
* ≥0.53m²/10inch for double layers

Integrity Test Data*

Pore Size	Min. Bubble Point, 25 ℃	Max. Diffusion, 25 ℃
0.1μm	≥3.5bar	N/A
0.1μm+0.2μm	≥3.5bar	N/A
0.1μm+0.45μm	≥3.5bar	N/A
0.2μm	≥2.5bar	≤23ml/min@2.0bar
0.2μm+0.2μm	≥2.5bar	≤16ml/min@2.0bar
0.2μm+0.45μm	≥2.5bar	N/A
0.45μm	≥1.6bar	≤23ml/min@1.2bar
0.45μm+0.45μm	≥1.6bar	≤23ml/min@1.2bar
0.65μm	≥1.2bar	≤23ml/min@0.9bar
1.0μm	≥0.9bar	N/A
1.2μm	≥0.7bar	N/A
5.0μm	≥0.2bar	N/A

*Tested by DI water @10inch

Typical Liquid Flow Rates



10" cartridge filter @25℃
Typical flow rates. For liquids with viscosity differing from water, multiply the pressure drop by the viscosity in centipoise.
Unit conversion: 1 bar = 100 kPa = 14.5 psi

Features

- Naturally hydrophilic, easy to wet
- Extensive chemical compatibility, resistant to organic solvents
- 100% integrity testing
- Low pressure difference, hign flux, long service life

Application

- Culture Media
- Buffers
- Large Volume Parenterals
- Bulk Pharmaceutical Products
- Alcohol
- High Purity Water
- Solvent
- Bubble Jet Ink

Ordering Information*

Filter Media	Length	Pore Size	Adaptor	Sealing	Core
CRNY: Nylon 66 Membrane	005 = 5 inch 010 = 10 inch 020 = 20 inch 030 = 30 inch 040 = 40 inch	010=0.10μm B10=0.10μm+0.20μm C10=0.10μm+0.45μm 020=0.20μm X20=0.20μm+0.20μm C20=0.20μm+0.45μm 045=0.45μm X45=0.45μm+0.45μm 065=0.65μm 100=1.0μm 120=1.2μm 500=5.0μm	0=DOE 1=222/Flat with SS insert 2=222/Flat 3=222/Fin 4=222/Fin with SS insert 5=226/Fin with SS insert 6=226/Fin 7=226/Flat 8=226/Flat with SS insert	S = Silicone E = EPDM F = FPM/FKM N = NBR	Blank=PP R=GF Reinforced PP S=316L Stainless Steel

* This information is a guide to the part number structure and possible options. For applications requiring autoclaving and sterilization, MS recommends the use of adaptor with SS insert to ensure filter sealing after cooling, If products that require autoclaving and sterilization use EPDM sealing rings and require customization. For availability of specific options and housing details, please contact MS.

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