

Ultranylomem® PP-66

Pleated Filters with Hydrophilic Nylon 66 Membrane

Features and Benefits

Ultranylomem® PP-P66 filters are uniquely constructed for superior performance with a serial membrane layer design that incorporates a large pore-size membrane layer upstream of the final membrane layer. The first membrane acts as a prefilter to increase the life and efficiency of the cartridge. It is also highly effective in retaining difficult contaminants such as gelatinous particles. The final membrane layer ensures consistent retention characteristics.

PP-P66 filters are designed to ensure maximum downstream cleanliness. Nylon 66 membranes are naturally hydrophilic, non-shedding and do not contain leachable wetting agents. Thermoplastic sealing technologies are used in the cartridge construction, eliminating the need for potentially contaminating adhesives. Each cartridge is manufactured under strict production control and is individually integrity tested. Donaldson is your complete source for filters, crossflow membranes, housings and other filtration equipment.

Applications

PP-P66 filters have excellent chemical compatibility, making them the ideal choice for a broad range of applications such as high purity water, strong solvents, photoresists and other critical process fluid systems. Typical applications include:

- Filtration of pharmaceutical intermediates
- Filtration of positive photoresists
- Final filtration of beverages



Ultranylomem® PP-66 filters are uniquely constructed for enhanced reliability and performance. Polyester end caps and support layers maintain cartridge integrity. Serial layer membrane design, with a prefilter membrane layer over a final membrane layer, significantly enhances cartridge life.

Materials

Filtration Media:	2 layers of Nylon 66 membrane (prefilter layer over final layer)
Support Layers:	Polyester microfiber
Core and Cage:	Polypropylene
End Caps and Adapters:	Polyester

Dimensions

Nominal O.D.	2.75 in
Nominal I.D.	1.25 in
Effective Filtration Area	6.9 ft ²

Operational Limits

Maximum forward differential pressure: 60 psid (4.1 bar) @ 70°F (21°C)
Maximum reverse differential pressure: 30 psid (2.1 bar) @ 70°F (21°C)
Maximum operating temperature: 180°F (82°C) at 10 psid (0.7 bar) in water

Integrity Testing	
Air diffusion per 10-inch module after saturation with clean water	
Pore Size Rating	Specification
0.1 μm	≤ 0.61 cu.in./min. at 40 psig (2.76 bar)
0.2 μm	≤ 0.61 cu.in./min. at 30 psig (2.07 bar)
0.45 μm	≤ 0.61 cu.in./min. at 15 psig (1.03 bar)
0.65 μm	≤ 0.61 cu.in./min. at 12 psig (0.83 bar)
1.0 μm	≤ 0.61 cu.in./min. at 5 psig (0.34 bar)

Available Absolute Micron Rating
0.1, 0.2, 0.45, 0.65 and 1.0 microns

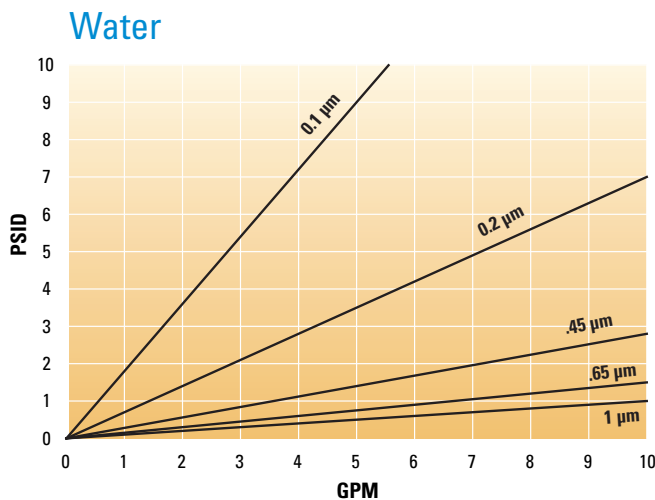
Additional Information

Ultranlymem PP-P66 filters may be autoclaved or *in-situ* steam sterilized (up to 257°F, 30 minute cycles) for a maximum accumulated exposure of 10 hours. Alternatively, the filters may be sanitized with compatible chemical agents.

Donaldson certifies that the materials contained in its Ultranlymem PP-P66 pleated filters meet U.S. FDA requirements for food contact under the applicable regulations in 21 CFR. Ultranlymem PP-P66 filters meet the test criteria for USP class VI-250°F Plastics.

Aqueous extracts from Ultranlymem PP-P66 filters contain less than 0.25 EU/ml. The filters typically exhibit low levels of non-volatile residues.

Donaldson cartridge filters are designed and manufactured for resistance to a wide range of chemical solutions. Conditions will vary with each application and users should carefully verify chemical compatibility. Please contact Donaldson for more information.



Ordering Information			
Base Model Number			
1C-PP-P66-P7-(Length Code)-(Rating Code)			
Example: 1C-PP-P66-P7-L2-M02			
Element Length		Absolute Micron Rating	
Code	Length (in.)	Code	Rating
L05	5	M01	0.1 μm
L1	10	M02	0.2 μm
L2	20	M045	0.45 μm
L3	30	M065	0.65 μm
L4	40	M1	1.0 μm

Standard Element Configuration*	
End #1 Adapter	2 x 226 O-Ring
End #2 Adapter	Fin
Elastomer Material	EPDM

*Other configurations available upon request



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