

**Pleated filter elements with hydrophilic Nylon 66 membrane are uniquely constructed for enhanced reliability and performance.**

Donaldson® Ultranylomem™ PP-P66 membrane filter elements 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. The serial layer membrane design significantly enhances filter element life while the polyester end caps and support layers maintain filter element integrity.

Ultranylomem PP-P66 membrane filter elements 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 cartridge construction, eliminating the need for potentially contaminating adhesives. Each filter element is manufactured under strict production control and is individually integrity tested.



**Ultranylomem PP-P66**

## APPLICATIONS

Ultranylomem PP-P66 filter elements 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
- Final filtration of beverages
- Filtration of positive photoresists

## DIMENSIONS & SPECIFICATIONS

| MATERIALS             |  |
|-----------------------|--|
| Filter 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  |

| 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 |

| DIMENSIONS                |                     |
|---------------------------|---------------------|
| Nominal O.D.              | 2.75 in.            |
| Nominal I.D.              | 1.25 in.            |
| Effective Filtration Area | 6.9 ft <sup>2</sup> |

## INTEGRITY TESTING

Air diffusion per 10-inch module after saturation with clean water

| Pore Size Rating | Specification                         |
|------------------|---------------------------------------|
| 0.1 µm           | ≥ 3 cu.in./min. at 40 psig (2.76 bar) |
| 0.2 µm           | ≥ 3 cu.in./min. at 30 psig (2.07 bar) |
| 0.45 µm          | ≥ 3 cu.in./min. at 15 psig (1.03 bar) |
| 0.65 µm          | ≥ 3 cu.in./min. at 12 psig (0.83 bar) |
| 1.00 µm          | ≥ 3 cu.in./min. at 5 psig (0.34 bar)  |

## AVAILABLE ABSOLUTE MICRON RATING

0.10, 0.20, 0.45, 0.65 and 1.00 microns

## ADDITIONAL INFORMATION

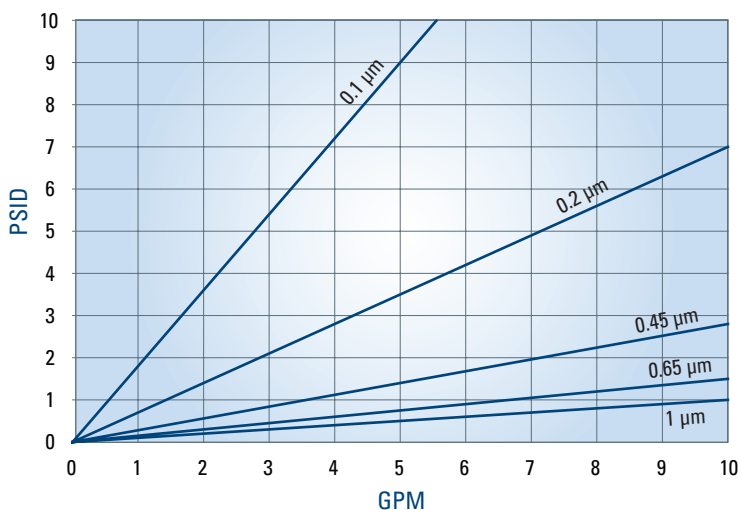
Ultranlyomem PP-P66 membrane filter elements may be autoclaved or in-situ steam sterilized (up to 257°F, 30-minute cycles) for a maximum accumulated exposure of 10 hours. Alternatively, the filters may be sanitized with compatible chemical agents.

Donaldson certifies that the materials used in its Ultranlyomem PP-P66 pleated filter elements meet U.S. FDA requirements for food contact under the applicable regulations in 21 CFR. Ultranlyomem PP-P66 filter elements meet the test criteria for USP Class VI-250°F Plastics.

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

The filter elements 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.

**PP-P66 Pressure Drop  
Per Ten Inch Equivalent (TIE) — Water**



## 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                    | 0.10 µm |
| L1             | 10           | M02                    | 0.20 µm |
| L2             | 20           | M045                   | 0.45 µm |
| L3             | 30           | M065                   | 0.65 µm |
| L4             | 40           | M1                     | 1.00 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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