

# Dual-Layer Nylon 66 Pleated Membrane Filter

PARSWOOD dual-layer cartridges use an inherently hydrophilic Nylon 66 membrane for filtration of compatible aqueous liquids and organic solvent systems. Construction uses no glues, adhesives or added wetting agents.

Two membrane layers provide sequential filtration. Select the upstream and downstream ratings, cartridge length, end connection and seal to match the process and housing.



| FEATURES                                                                                                        | APPLICATIONS                                                                                                                                   |
|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Hydrophilic Nylon 66 membrane<br>Double-layer, supplier-described absolute-rated media<br>100% integrity tested | High-purity water filtration<br>Compatible solvents and aqueous co-solvent systems<br>Pharmaceutical process liquids, subject to qualification |

## MATERIALS, DIMENSIONS & OPERATING LIMITS

| MATERIAL / DIMENSION   | SPECIFICATION        | OPERATING PARAMETER                   | LIMIT      |
|------------------------|----------------------|---------------------------------------|------------|
| Membrane               | Nylon 66             | Maximum operating temperature         | 80°C       |
| Support                | PET                  | Maximum differential pressure at 25°C | 4.0 bar    |
| Core / cage / end caps | Polypropylene        | Maximum differential pressure at 80°C | 2.4 bar    |
| Standard seals         | Silicone / EPDM      | Steam temperature                     | 125°C      |
| Outside diameter       | 69 mm                | Steam exposure per cycle              | 30 minutes |
| Nominal lengths        | 5, 10, 20, 30, 40 in | Steam cycles                          | Up to 30   |

## MEMBRANE RATING COMBINATIONS

Upstream + downstream: 0.1 + 0.1 µm; 0.22 + 0.22 µm; 0.45 + 0.22 µm; 0.45 + 0.45 µm. The two ratings are stated separately; two 0.22 µm layers do not create a 0.11 µm rating.

## PROCESS QUALIFICATION

Chemical compatibility depends on the liquid, concentration, temperature and complete cartridge construction. Steam exposure limits are separate from continuous liquid operating limits. Qualify the intended process and sterilization procedure before use.



NYD SERIES / ORDERING AND QUALITY

## Configuration & Technical Reference

### PARSWOOD ORDERING EXAMPLE

# NYD2222B30EP

| SERIES                 | RATINGS        | CONNECTION                         | LENGTH    | SEAL | CORE          |
|------------------------|----------------|------------------------------------|-----------|------|---------------|
| NYD                    | 2222           | B                                  | 30        | E    | P             |
| Dual-layer<br>Nylon 66 | 0.22 + 0.22 µm | 226 / Fin<br>SS insert<br>(Code 7) | 30 inches | EPDM | Polypropylene |

This example matches the current PARSWOOD product configuration. Confirm the complete part number for other configurations; supplier connection letters are not interchangeable with PARSWOOD codes.

### FAMILY CONFIGURATION OPTIONS

| FIELD           | AVAILABLE FAMILY OPTIONS                                                                                                                                                                                               |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Rating pair     | 0.1 + 0.1; 0.22 + 0.22; 0.45 + 0.22; 0.45 + 0.45 µm                                                                                                                                                                    |
| Nominal length  | 5, 10, 20, 30 or 40 inches                                                                                                                                                                                             |
| End connections | DOE; 226 / Fin or Flat with PSU insert; 222 / Fin or Flat with SS insert; 226 / Fin or Flat with SS insert                                                                                                             |
| Seals and core  | Standard seals: Silicone or EPDM; standard core: PP.<br>The supplier ordering guide also lists NBR, FKM, E-FKM seals and a stainless steel core.<br>Confirm these options and their applicable limits before ordering. |

### SUPPLIER-REPORTED QUALITY

| QUALITY / TRACEABILITY                                                                                                         | EXTRACTION DATA                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Cleanroom manufacture<br>ISO 9001:2015 quality management system<br>100% integrity tested<br>Unique serial number traceability | Extractables: no more than 25 mg per 10-inch cartridge<br>Aqueous extraction: less than 0.25 EU/mL |
| PP components meet USP Class VI at 121°C specifications for plastics.                                                          | These are supplier family statements; obtain model-specific documentation where required.          |

### IMPORTANT TECHNICAL NOTICE

Absolute rating and integrity testing alone do not establish sterilizing-grade bacterial retention. The source sheet does not provide a microbial challenge protocol, integrity-test acceptance limits or a flow curve. No such performance is inferred here.

Technical values are transcribed from the supplied dual-layer Nylon 66 manufacturer sheet. Data represent controlled laboratory conditions and are not a warranty of fitness. Performance varies with contaminants, fluid properties, flow and environment. Confirm housing fit, seal compatibility and application suitability.