

## General Description

**Ultraflon M18** is a hydrophilic PTFE membrane that has a wide chemical compatibility range and can handle the full range of pH conditions.

The hydrophilic quality of this membrane allows for complete wetting and consistent performance. The membrane is clean with no residual or other agents to provide pure filtration. **Ultraflon M18** can be sealed to other thermoplastic surfaces with common techniques to maximize fluid flow through the filter.

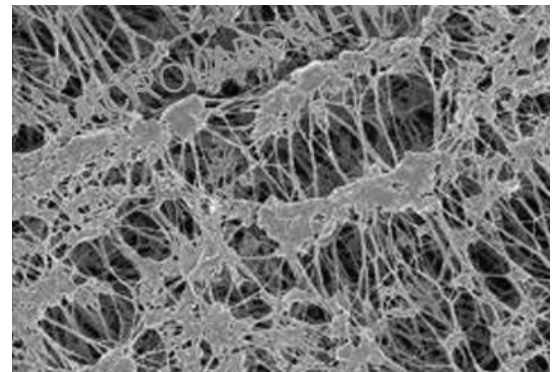
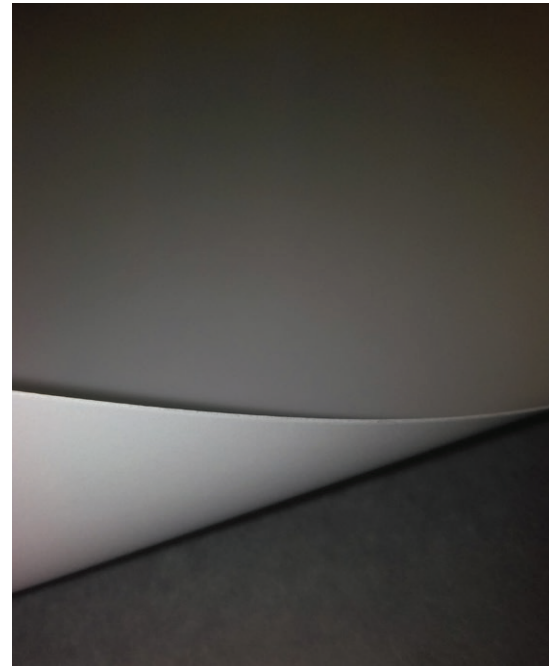
- Certified Biological Safety (ISO 10993/USP Class VI)
- Optimized Backing Material, Better Sealing Capability
- Wide Range of Pore Size (0.02 – 10um)
- HEPA/ULPA/STERILE Grade
- Compatible with Different Sealing Methods
- Ultrasonic, Heat, RF Welding, Mechanical, Inserting Molding
- Sterilization Compatibility
- Autoclave, Ethylene Oxide, E-Beam, Gamma Irradiation

### Available Pore Size (um)

- 0.02, 0.03, 0.05, 0.1, 0.2, 0.45, 0.8, 1.0, 2.0, 5.0, 10.0

### Performance at pore size <0.2um

- Filtration efficiency > 99.99999% *Brevundimonas diminuta* (0.39+ 0.03um Dia x 1.54 + 0.27um)<sup>1</sup>
- Thickness 280-440um



SEM (Scanning Electron Microscope) view of an Ultraflon M membrane.

## Applications

- Solvents
- Acids
- Bases
- Aggressive chemicals

## Membrane Formats

- Roll
- Sheet
- Disc
- Custom converting

[1] REJECTION OF NON-SPHERICAL BACTERIA AND VIRUSES BY MICROFILTRATION MEMBRANES - Scientific Figure on ResearchGate. Available from: [https://www.researchgate.net/figure/Particles-used-for-filtration-experiments-Dimensions-were-determined-using-scanning\\_tbl1\\_267933947](https://www.researchgate.net/figure/Particles-used-for-filtration-experiments-Dimensions-were-determined-using-scanning_tbl1_267933947)

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from prototype to production.

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### CJ Composite

- Self-Lubricating
- Low weight | High Strength
- Chemical Resistance
- Direct replacement for Bronze



### Ultracomp<sup>®</sup>

- Self-Lubricating
- High Load | Low Speed
- High Compressive Strength
- Vibration & Impact Resistance



### TriSteel<sup>™</sup>

- Self-Lubricating
- High Load | High Speed
- Metal Backed Bearing System
- 100% Lead Free



### Rulon<sup>®</sup>

- Self-Lubricating
- Low weight | High Strength
- Low Coefficient of Friction
- Chemically Resistant



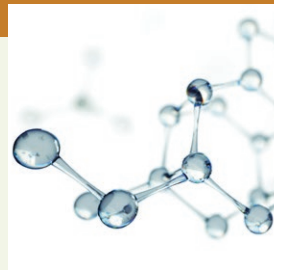
### Meldin<sup>®</sup>

- High Performance Materials
- High Temp Dimensional Stability
- Chemical Resistance
- Withstands Thermal Shocks



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