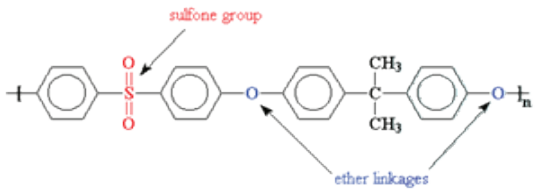
Ultraflon M10 Membrane

TriStar

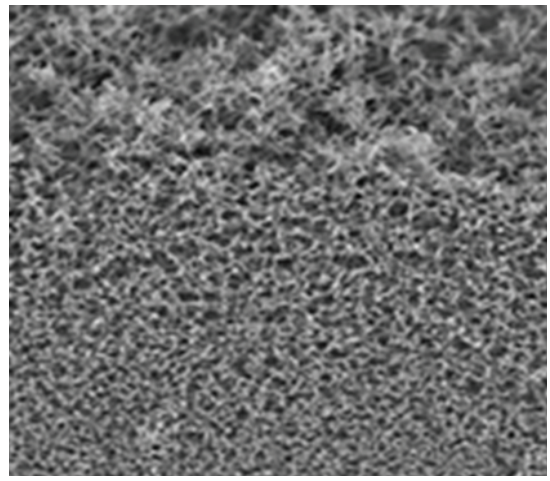
Engineered Plastic Solutions™

General Description

Ultraflon M10 is a PES (polyethersulfone) membrane for water filtration, reagent or lyophilization support, or whole blood separation. This is an asymmetric membrane which is modified to high efficiency.



Poly(ether sulfones) are high performance polymers that act a lot like polycarbonates, but they're a lot more heat resistant. Poly(ether sulfones) also can stand up well to water and steam. The aromatic groups provide the heat resistance and the sulfone groups provide stiffness and structure. The ether groups provide the flexibility. This is why PES membranes are used in a wide range of applications.



SEM (Scanning Electron Microscope) view of an Ultraflon M10 membrane.

Applications

- Water filtration
- Microfluidic devices
- Reagent support
- Blood separation
- Lyophilization support
- Cell scaffolding

Typical Specifications

- Thickness (µm) : 180 +/- 50
- Flow rate (sec) : ≤10
- Bubble point (psi) : ≥8.0

Membrane Formats

- Roll
- Sheet
- Disc
- Custom converting

About TriStar EMD

Our **Enhanced Materials Division (EMD)** positions TriStar Plastics as the best resource to solve your demanding engineering challenges. From expert material selection guidance to material enhancements that improve and extend the performance of existing polymers and elastomers, we can help you find the best, most cost-effective way forward. Learn more.

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We're ready to put our engineering expertise to work for you from prototype to production.

Engineering | Custom Fabrication | Manufacturing

CJ Composite

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

Ultracomp®

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

TriSteel™

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

Rulon®

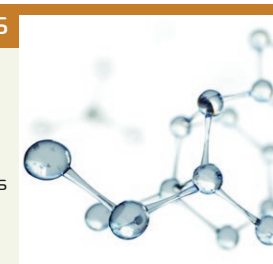
- Self-Lubricating
- Low weight | High Strength
- Low Coefficient of Friction
- Chemically Resistant

Meldin®

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

Enhanced Materials

- Plasma Surface Treatment
- Filtration Membranes
- Specialized Primers & Coatings
- Material ID & Selection



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