Fusicloth

ePTFE Composite Membrane

Overview

Fusicloth is a cutting-edge composite membrane that combines a binding polymer layer with an implantable ePTFE membrane, creating a durable, non-woven structure. This advanced membrane provides an excellent adhesion platform for stents and scaffolds, enabling seamless encapsulation of nitinol frames without the need for sutures. Additionally, this process is performed at significantly lower temperatures (266°F / 180°C) compared to traditional ePTFE coverings, which typically require much higher temperatures (572°F / 300°C).

The integration of a biocompatible binding layer with the ePTFE membrane results in isotropic mechanical properties, making Fusicloth ideal for encapsulating a variety of frame shapes and complex geometries. This versatility offers superior performance across different medical device applications.

As a leading supplier of medical components, we provide extensive support through our network of Field Application Engineers (FAEs). Our experts collaborate with you to assess frame designs, validate the feasibility of encapsulating with Fusicloth using prototype samples, and ensure a smooth technology transfer. This process allows you to integrate Fusicloth into your devices and components efficiently, setting the stage for successful commercialization.

Membrane	
Width	Up to 6” (+/- 0.500)
Length	3
Thickness	0.002” - 0.005” (REF)
Sleeves	
Diameter	0.02” – 1”
Length	10” Max
Thickness	0.002” - 0.005”

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AVAILABLE PRODUCTS

- Fusicloth
- Encapsulated prototype stents
- Encapsulation technology

APPLICATIONS

- Low-profile encapsulation of stents
- Implantable structures in the body
- Cardio valves and patches
- Septal occluders

KEY PROPERTIES

- Biocompatible materials
- Microporous
- Isotropic mechanical properties
- Sterilizable (ETO)
- Low temperature bonding (266 °F / 180 °C)
- Non-reactive

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