

Bioweb™ Products

Biocompatible Composites

Overview-

Electrospinning PTFE is a technology that produces polymer fibers with thicknesses ranging from the nano- to microscale. Zeus Bioweb™ is a non-woven composite product based upon this well-established polymer that produces a composite matrix with porous qualities similar to expanded PTFE (ePTFE). Without the nodes and fibrils of ePTFE, however, Bioweb™ can encapsulate thinner profiles than ePTFE making it especially suited for small vasculatures.

As a biocompatible covering for stents, Bioweb's® low chemical reactivity means that it will not degrade metal stent frameworks. PTFE has a long history of medical use and is easily integrated into implantable structures. We have the ability to create encapsulation technology, electrospun membranes and sheets, and develop coatings for 3-D substrates in a variety of shapes and sizes.

As a leader in the production of medical device components, we provide critical intellectual and physical resources to assist you in bringing new technologies to the market. We also focus on quality prototype development. Bioweb™ is available license-free through a technology transfer agreement allowing you to cover your own devices and components with Bioweb™.



CHEMICAL RESISTANCE



ABRASION RESISTANCE



BIOCOMPATIBLE



Stents shown covered with Bioweb™. Ask us about license-free Bioweb™ composites via technology transfer agreement.

APPLICATIONS

- Scaffolding
- Stent encapsulation
- Implantable structures in the body

AVAILABLE PRODUCTS

- Spun membrane and sheet
- Encapsulation technology

KEY PROPERTIES

- Biocompatible
- Microporous (electrospun PTFE)
- High flexibility
- Sterilizable
- Low temperature encapsulation
- Low chemical reactivity

