Tisseos

Resorbable synthetic membrane
Next generation synthetic resorbable membrane

**Tisseos®** is a bi-layered, synthetic, biocompatible and fully resorbable membrane for Guided Bone Regeneration (GBR) and Guided Tissue Regeneration (GTR) applications.

Thanks to our unique patented production process and specialist know-how, the Tisseos® membrane’s fully controlled resorption means it is perfect for all surgery.

Synthetic – today’s alternative choice:

Intricate, non-woven synthetic microfibers imitate the structure of human collagen and serve as a 3D matrix for early cell colonization and vascularisation.

Unlike bovine or porcine derived membranes, Tisseos® is free from animal derivatives. Our biocompatible synthetic membrane avoids the risk of transmission of animal pathogens.

Widens treatable patient group: Tisseos® synthetic membranes are suitable for patients who avoid animal by-products for cultural reasons or lifestyle choices.

Biocompatible & bioresorbable

- **Medical-grade PLGA**
  
  Medical-grade Polyactic-Glycolic Acid provides excellent biocompatibility. A 100% biodegradable polymer, PLGA has a long history of successful use in a variety of medical applications and devices such as resorbable sutures, pins, screws etc, and over many decades.

- **Bilayered structure**
  
  Specially designed bilayered structure prevents (gingival) epithelial tissue ingrowth on one side [smooth fascia of dense layer] while promoting cell infiltration and guided bone healing on the other [matt fascia with non-woven microfibers].

- **Exceptional tissue adhesion**
  
  Supple, strong and tear-resistant for tacking and suturing, Tisseos® is easy to both handle and cut to size. Exceptional tissue adhesion during surgery.

- **Unique shape memory**
  
  Unique shape-memory properties offer optimal membrane shaping and placement to fit defect anatomies.

- **Complete bio-resorption in 6 months**
  
  The barrier function of the Tisseos® membrane remains intact for the first 4 weeks. Optimal bone and tissue regeneration are both guaranteed thanks to the slow, fully controlled resorption over 6 months, avoiding any need for second stage surgery for membrane removal.
Our advanced tissue technology results in improved bioresorbable polymer-based implants for tissue regeneration.

Contact us to find out more about how Biomedical Tissues’ ongoing research and development in regenerative medicine can help you better serve patients.

Bibliographic references: