

# Tisseos

Resorbable synthetic membrane

## WHY USE A MEMBRANE?



The principal of Guided Bone Regeneration (GBR) is to create a space between the bone defect and the soft gingival tissues in order to promote bone remodeling. A membrane is applied on the inside of the gingival flap to act as a barrier in order to isolate the bone defect and prevent the proliferation of epithelial cells. There are three key actions:

- to prevent the proliferation of epithelial cells and encourage the migration of bone cells within the blood clot
- to keep the bone graft and blood clot in place
- to help prevent bone loss by as much as 25% (Widmark et al., 1997).

## FINALLY A MEMBRANE THAT'S SUITABLE FOR ALL YOUR PATIENTS

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



animal free

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

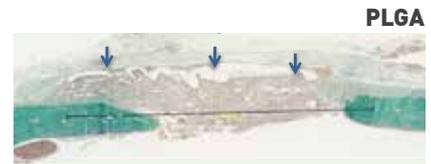
Medical-grade Polylactic-Glycolic Acid (PLGA) provides excellent biocompatibility. A 100% biodegradable polymer, PLGA has a long history of successful use in a variety of medical applications and devices such as resorbable sutures, pins, screws etc, and over many decades.



NONE



COLL



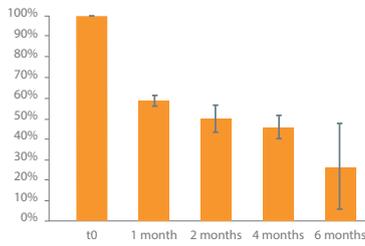
PLGA

Histological study of bone defect repair in rat calvaria after 4 weeks. The initial 5mm defect is indicated by the dotted line. Membranes, where implanted, are indicated by the arrows: COLL for porcine derived collagen membrane, PLGA for Tisseos® membrane. Masson trichrome stain, x25. Biomed. Mater. 2016; 11(4):045012.

## EASY TO USE

- Does not stick to soft tissue or instruments
- No need for prior wetting, pinning or suturing
- Quickly soaks up biological fluids on the micro-fiber side
- Once wet Tisseos® respects the form and shape that you create
- Tear resistant for tacking and suturing
- Easy to cut
- Tisseos® assists secondary healing in case of exposure and will reepithelialize in 2 weeks





Graph shows the Tisseos® membrane resorption time over a 6 month period.

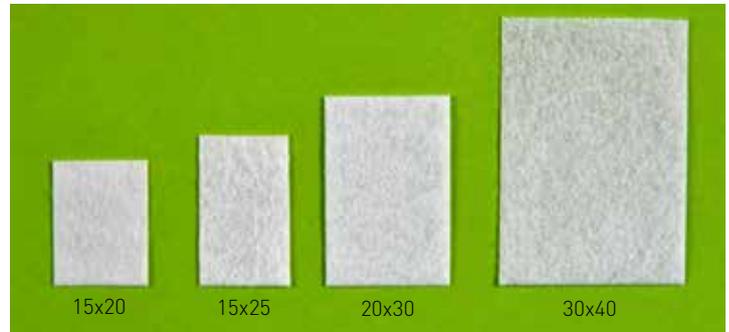
## BIOCOMPATIBLE AND BIORESORBABLE

The barrier function of 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.

## AVAILABLE IN 4 SIZES

## BILAYERED STRUCTURE FOR OPTIMAL BARRIER EFFECT

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).



## PREDICTABLE VERTICAL BONE REGENERATION COURTESY OF DRS. BRAY ESTELLE AND L'ENFANT BENOIT, NANTES

Resorption of allogenic bone graft is difficult to predict. Guided bone regeneration using Tisseos® and a bio-material allows you to augment bone vertically in a more predictable way.



Prosthetics rehabilitation showing the vertical defect



Resorption of the allogenic bone graft



Insertion of Tisseos® membrane and filling of the defect with a biomaterial



Final position of the Tisseos® membrane covering the biomaterial



Healing at 8 days



Healing at 2 1/2 months

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