OpenTex®

Purgo Dental Biologics Solution

“Feel the Clinical Freedom on Science and Safety”

Founded in 1999, Purgo Biologics strives to become one of the leading global companies in oral health care with its focus on safe biomaterials for soft tissue and bone regeneration.
Based on the specialized experiences accumulated by our outstanding research personnel, Purgo Research and Development Center based in Seoul is thriving to become the best in the world, specifically in the expertise of oral biomaterials for soft tissue and bone regeneration. All members in Research and Development Center are pursuing the optimized technical developments with various clinical studies, cooperative research with the governments, clinicians and educational institutions.

The solutions manufactured by Purgo are gaining fame throughout the world and Purgo’s solutions are widely accepted by global dentists from more than 30 countries.

Our production site is complying with the most international quality standards and regularly inspected by international agencies. Each production stage of our biologics solutions are controlled from the selection of the raw material to the final product.

Availability of words may vary from country to country.

Make smart decision with smart alternative !

OpenTex®

OpenTex® Non-Resorbable PTFE Membrane is a pure medical-grade polytetrafluoroethylene (PTFE) sheet with inert biological features and predictable barrier effect. Due to the smooth surface and small pore size, OpenTex® PTFE Membrane resists the incorporation of bacteria into its structure and eases the removal of the membrane.

Non-resorbable membrane is sustainable for surgical procedure with no primary closure. OpenTex® Membrane is ideal for space-making feature providing enough space for host cells to adhere to grafting materials. OpenTex® is supplied sterile for single use only and available in various sizes. [7]

The Evolution of PTFE Membrane

1980s

1st Generation

1st is considered the gold standard in barrier membranes.

1994

2nd Generation

d-PTFE membrane

2010

3rd Generation

With its microporosity, OpenTex is considered to be a novel barrier membrane. It is especially suitable for bone regeneration and soft tissue management of an extraction socket after immediate implant placement.

[7] Alveolar ridge preservation using an open membrane approach for sockets with bone deficiency: A randomized controlled clinicat trial Dong-Joo Sung DOS, MSD1 1 Hyun-Chang Lim DOS, PhD2 I Dong-Woon Lee DOS, Ph01 Clin Implant Dent Relat Res. 2018; 1-8

Non-Resorbable PTFE membrane

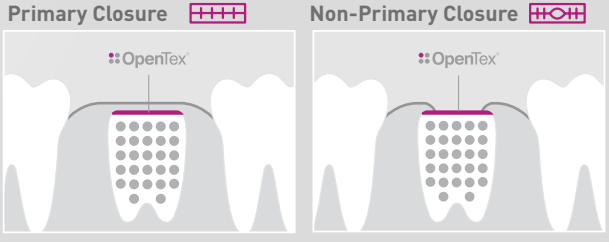
Indications

GBR (Guided Bone Regeneration)

- Simultaneous use of GBR membrane and implants.
- Augmentation around implant placed in immediate extraction sites or delayed extraction sockets.

GTR (Guided Tissue Regeneration)

- Filling of bone defects after root resection, removal of cysts, and removal of retained teeth.



Specifications

OpenTex®

Item N°	Size
OpenTex_01	24 mm x 30 mm
OpenTex_02	17 mm x 25 mm

OpenTex® Main Features

Non-Resorbable

- 100% medical grade PTFE membrane.
- Biologically inert and chemically non-reactive.
- Healing procedure is not interfered with membrane absorption.

Microporous

- Promote the gingival tissue attachment.
- Enhances ease in the interstitial fluid circulation.
- Resist the bacteria infection and fibroblast cells migration.

Minimally Invasive

- Rapid recovery of soft tissue.
- Primary Closure is not necessary.
- Virtually impervious to bacteria.
- Minimum flap reflection or dissection. Safe from bacteria infection, even in the event of the exposure.

Withstands Exposure

- Protect the tissue regeneration site.
- Regenerated underlying tissue can be evaluated.
- Provide a proper environment for the growth of blood vessel and osteogenic cells.

OpenTex™ Benefits

Soft Tissue Obtaining

Aesthetic Implant Restoration

Natural Saliva Passage

Minimally Invasive

OpenTex™ Strenghts

1 Stability :
Non-resorbable PTFE Membrane offers enough healing time to bone regenerative process.

2 Biologically inert :
PTFE is soft tissue friendly so it is ideal material as a barrier for bone regenerative process.

3 Withstands to exposure :
PTFE Membrane withstands to exposure since it is impervious to bacteria due to their barrier function.

Characteristics of OpenTex® [8]

Impervious to Bacteria

Most of Oral Bacteria is larger than 1um. OpenTex® is micro-porous material that has the pore size small enough to prevent bacterial infiltration.

Biocompatible, OpenTex® facilitates cell adhesion on the surfaces.

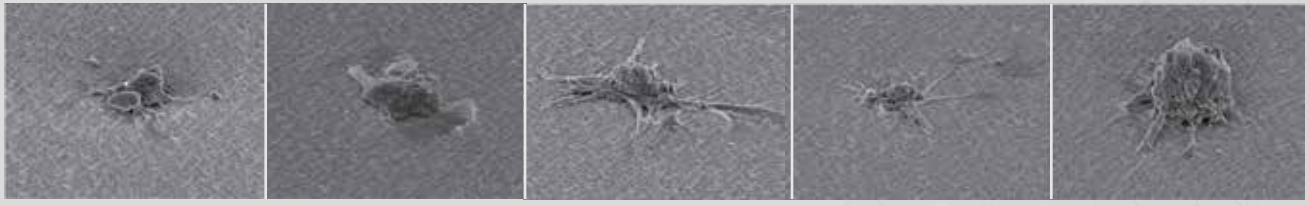
Test performed shows that the surface of OpenTex® is not toxic causing cells to adhere well on the surface.

General Oral Bacteria

> 1 µm

The matter is PORE SIZE

24 Hours for five cells adhesion cases on OpenTex® surface
(SEM : Scanning Electron Microscope)



[8] Review of pore sizes effect on OpenTex®/OpenTex®-TR PTFE Membrane

THE Graft™

THE Graft™ Collagen

OpenTex®

OpenTex®-TR

Biotex®

BioCover™

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