



 **OpenTex**<sup>TM</sup>

 **Purgo** Dental  
Biologics  
Solution

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. [9]



## The Evolution of PTFE Membrane



[9] Alveolar ridge preservation using an open membrane approach for sockets with bone deficiency: A randomized controlled clinical trial Dong-Joo Sun DDS, MSD1 | Hyun-Chang Lim DDS, PhD2 | Dong-Woon Lee DDS, PhD1 Clin Implant Dent Relat Res. 2018;1-8.

## Non-Resorbable PTFE membrane



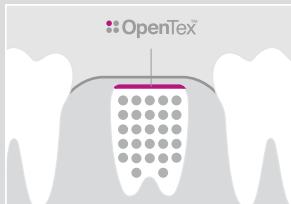
### Indications

#### GBR (Guided Bone Regeneration)

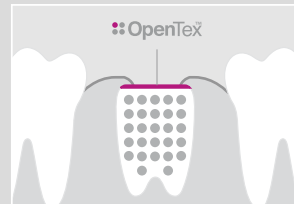
- Simultaneous use of GBR membrane and implants.
- Augmentation around implant placed in immediate extraction sites or delayed extraction sockets.
- Filling of bone defects after root resection, removal of cysts, and removal of retained teeth.

#### GTR (Guided Tissue Regeneration)

#### Primary Closure






#### Non-Primary Closure



### 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™ Strengths

### 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™ [10]

## Impervious to Bacteria

Most of Oral Bacteria is larger than 1um. OpenTen™ 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.

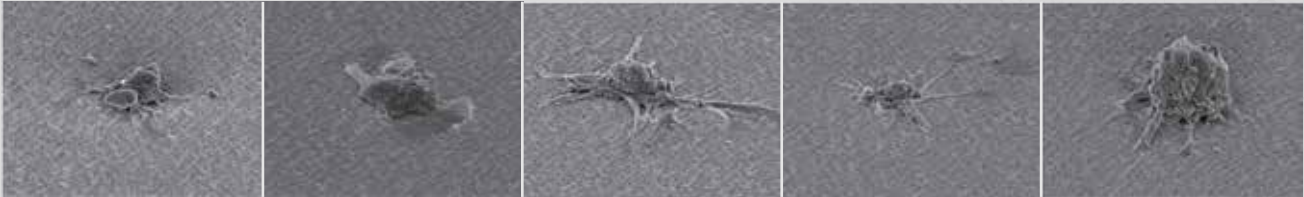


General Oral Bacteria

> 1 μm

The matters is **PORE SIZE**

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



[10] Review of Pore Size effect of OpenTex™ /OpenTex™ TR PTFE membrane.

**THE Graft** ™

**OpenTex**™

**OpenTex**™ TR

**Botex**™

**BioCover**™



**Purgo** Dental  
Biologics  
Solution

**Purgo Biologics Inc.**

E-607, 700, Pangyo-ro, Bundang-gu,  
Seongnam-si, Gyeonggi-do, Korea (13516)

Tel: +82 (2) 548-1875

Made in KOREA

[www.purgo biologics.com](http://www.purgo biologics.com)

Distributed by :

