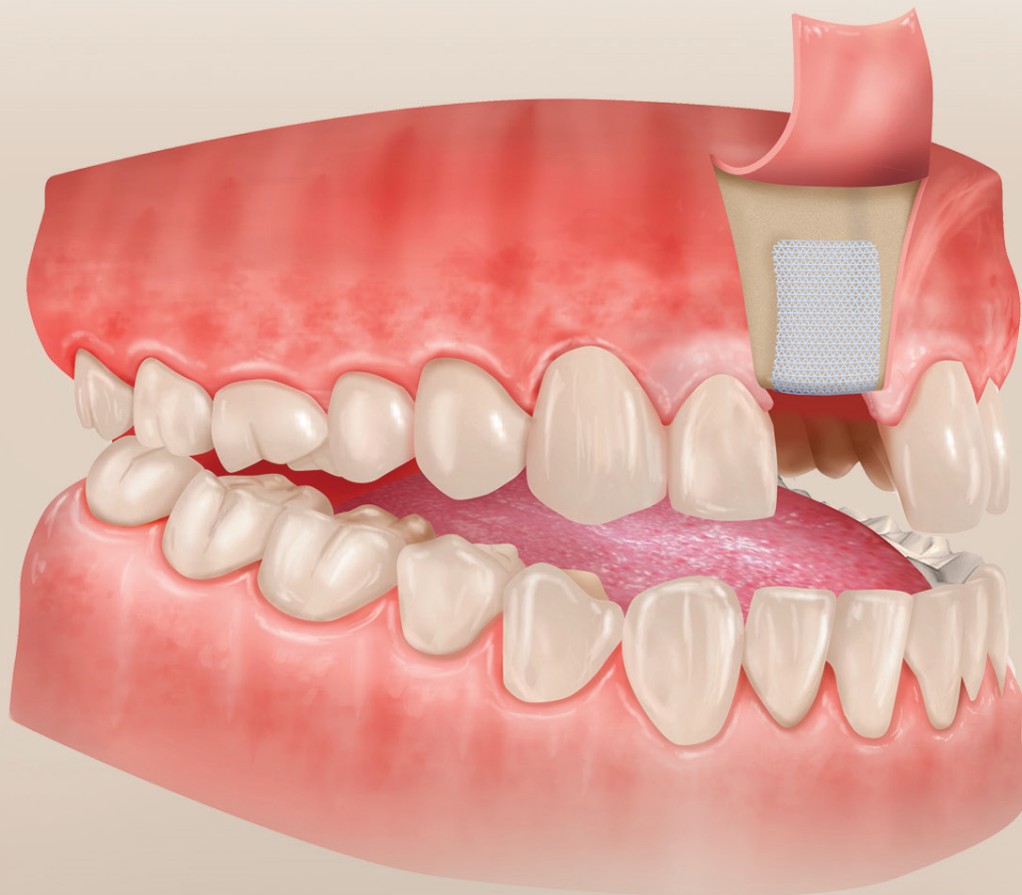


DENTAL

Osteomesh®

In Guided Bone Regeneration



Osteomesh® In Guided Bone Regeneration

1 BIOMIMETIC

Osteomesh® is a specially engineered 3D printed bioresorbable mesh designed to mimic the microarchitecture of natural bone. The characteristics of this regenerative technology meet the procedural needs of guided bone regeneration. The easy-to-handle Osteomesh® scaffold implant composed of Polycaprolactone (PCL) encloses the graft material and forms the contours of the desired reconstructed jaw.

PCL has a proven clinical history^[1,2] for maxillofacial indications. The interconnected micro-architecture of Osteomesh® facilitates osteoblast proliferation and infiltration whilst enabling bone graft stability and natural bone regeneration. The Osteomesh® predictable resorption profile^[3,4] avoids the need for an additional procedure, thus delivering clinical ease and patient comfort.

2 FEATURES & BENEFITS

FEATURES

Manufactured from PCL

100% synthetic

Predictable resorption profile

User friendly

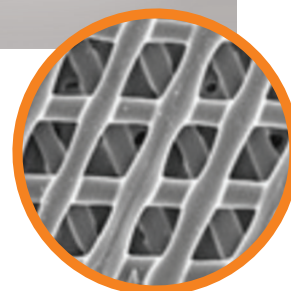
3D Printed

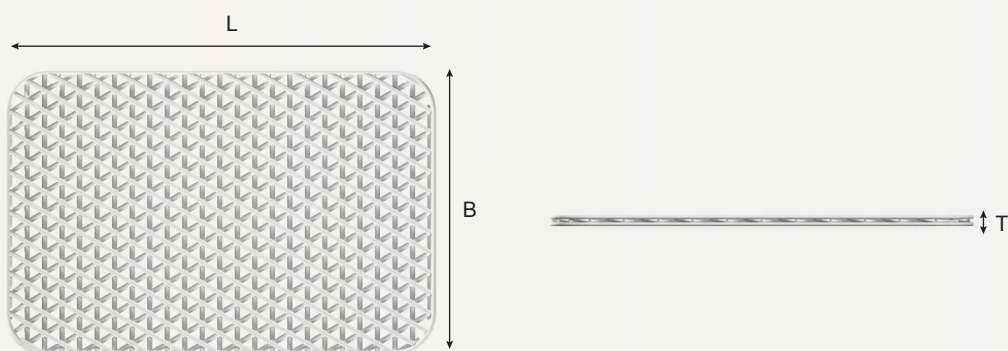
BENEFITS

- Bioresorbable, biocompatible, proven technology, and non-toxic.
- No animal tissue concerns such as disease transmission or cross reaction.
- Protects against soft tissue collapse and predictably maintains both shape and volume of the desired bone tissue. Bone remodeling takes place before complete degradation at 18 - 24 months.
- Semi-flexible, easy to handle and provided in a range of sizes which can be trimmed with scissors.
- Can be customised to specific patient anatomical needs as required to achieved optimal outcomes.



Porosity of Osteomesh®





	PRODUCT CODE	SIZE (L X B X T)/MM
	PC12(20,10,0.4)	20 x 10 x 0.4
	PC12(20,10,0.75)	20 x 10 x 0.75
	PC12(20,15,0.4)	20 x 15 x 0.4
	PC12(20,15,0.75)	20 x 15 x 0.75
	PC12(20,30,0.4)	20 x 30 x 0.4
	PC12(30,20,0.75)	30 x 20 x 0.75

Pictures of the product in actual size

More sizes available, please approach your country's distributor

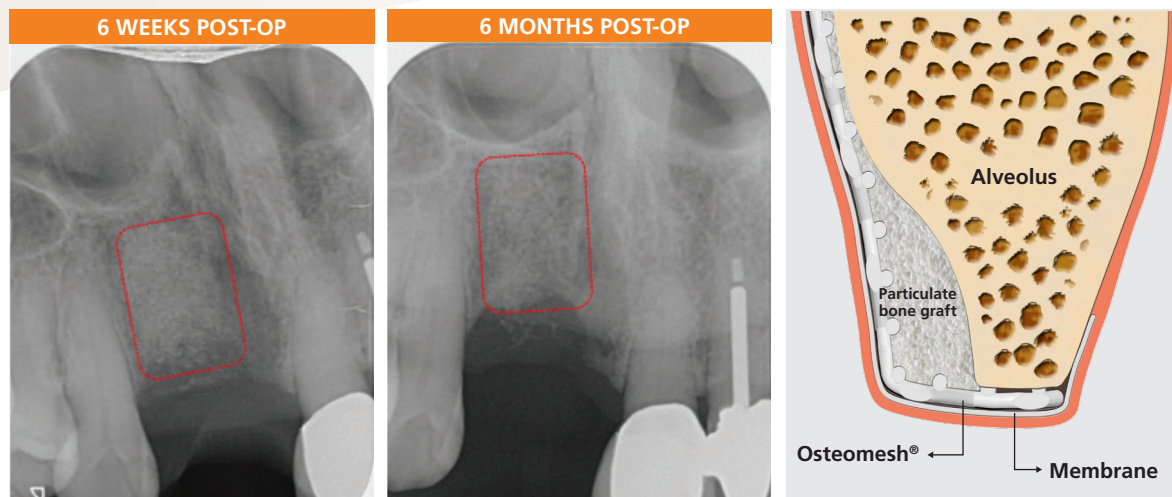
PATIENT'S PERSPECTIVE

- Osteomesh® has an excellent safety profile. Adverse reaction is not observed to date.

CLINICAL PERSPECTIVE

- Osteomesh® was carefully designed to speed up procedure due to its semi-flexible feel, easier cutting characteristics and ease of use, which is essential for the success of the treatment.
- Osteomesh® works well with all type of graft materials including autogenous bone.
- Osteomesh® has an ideal structures that can maintain its contour and shape throughout the course of healing.

Successful horizontal width and vertical height restoration



Osteomesh® trimmed and moulded into an “L-Shape” that creates stable horizontal and vertical bone volume around the defect. This results in a stable hard and soft-tissue condition following healing.

References

- ¹ Schuckert KH, Jopp S, Teoh SH. Mandibular defect reconstruction using three-dimensional polycaprolactone scaffold in combination with platelet-rich plasma and recombinant human bone morphogenetic protein-2: de novo synthesis of bone in a single case. *Tissue Eng Part A*. 2009 Mar;15(3):493-9. doi: 10.1089/ten.tea.2008.0033. PMID: 18767969.
- ² Goh BT, Teh LY, Tan DB, Zhang Z, Teoh SH. Novel 3D polycaprolactone scaffold for ridge preservation—a pilot randomised controlled clinical trial. *Clin Oral Implants Res*. 2015 Mar;26(3):271-7. doi: 10.1111/clr.12486. Epub 2014 Sep 27. PMID: 25263527.
- ³ Lam CX, Hutmacher DW, Schantz JT, Woodruff MA, Teoh SH. Evaluation of polycaprolactone scaffold degradation for 6 months in vitro and in vivo. *J Biomed Mater Res A*. 2009 Sep 1;90(3):906-19. doi: 10.1002/jbm.a.32052. PMID: 18646204.
- ⁴ Lam CX, Savalani MM, Teoh SH, Hutmacher DW. Dynamics of in vitro polymer degradation of polycaprolactone-based scaffolds: accelerated versus simulated physiological conditions. *Biomed Mater*. 2008 Sep;3(3):034108. doi: 10.1088/1748-6041/3/3/034108. Epub 2008 Aug 8. PMID: 18689929.

For professional use.

CAUTION: See instructions for use for full prescribing information, including indications, contraindications, warnings, and precautions.

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Osteopore®
Empowering Natural Tissue Regeneration

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