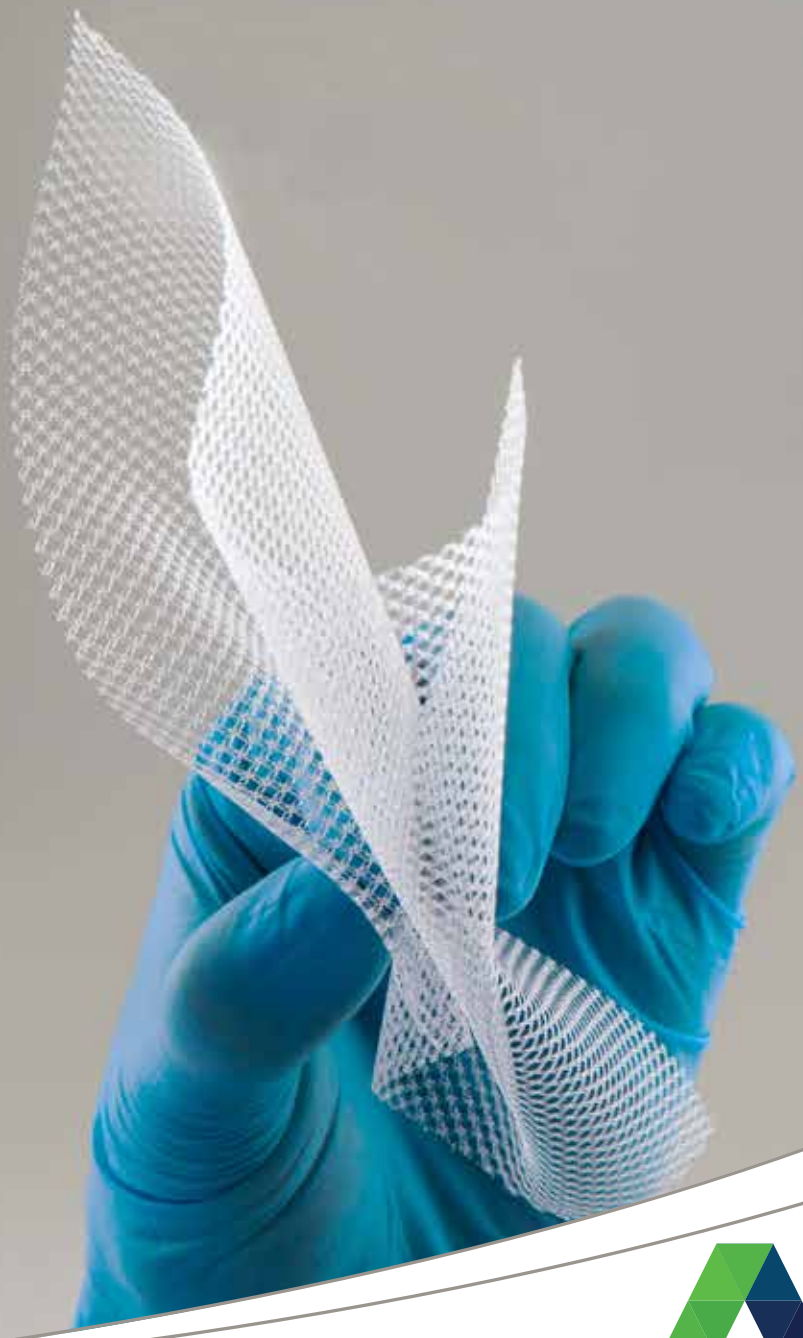
VitaMESH™

Midweight Macroporous Polypropylene Mesh



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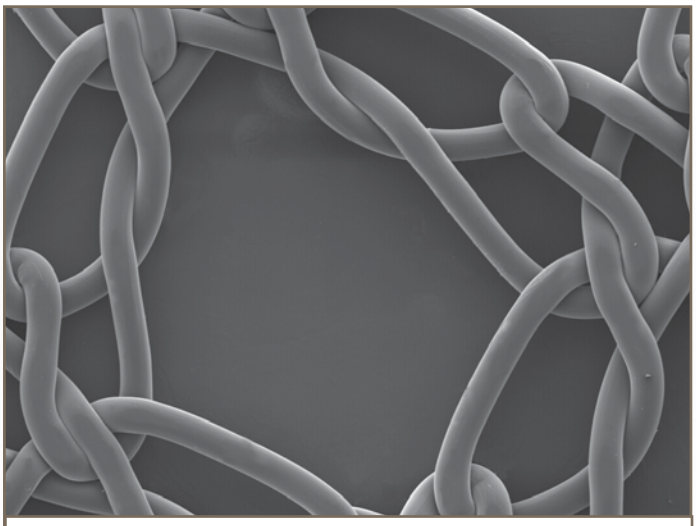
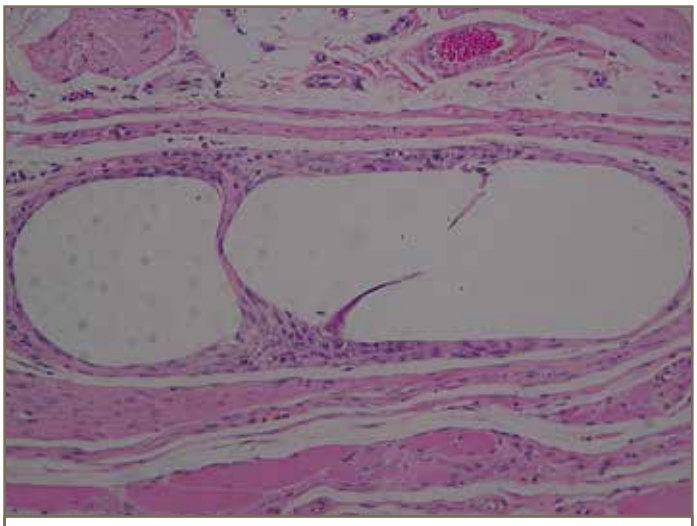
Tailored for Minimally Invasive Hernia Repair

VitaMESH™ Macroporous PP Surgical Mesh is an implant suitable for different types of fascial defects. VitaMESH provides the favourable ingrowth and healed strength characteristics of a large pore monofilament polypropylene mesh with optimised handling and biocompatibility attributes in one high performance implant of condensed polypropylene (cPP).



2.4 mm^2 Pore Size



Macroporous Open Pore Structure

Technical Characteristics[1] : VitaMESH™

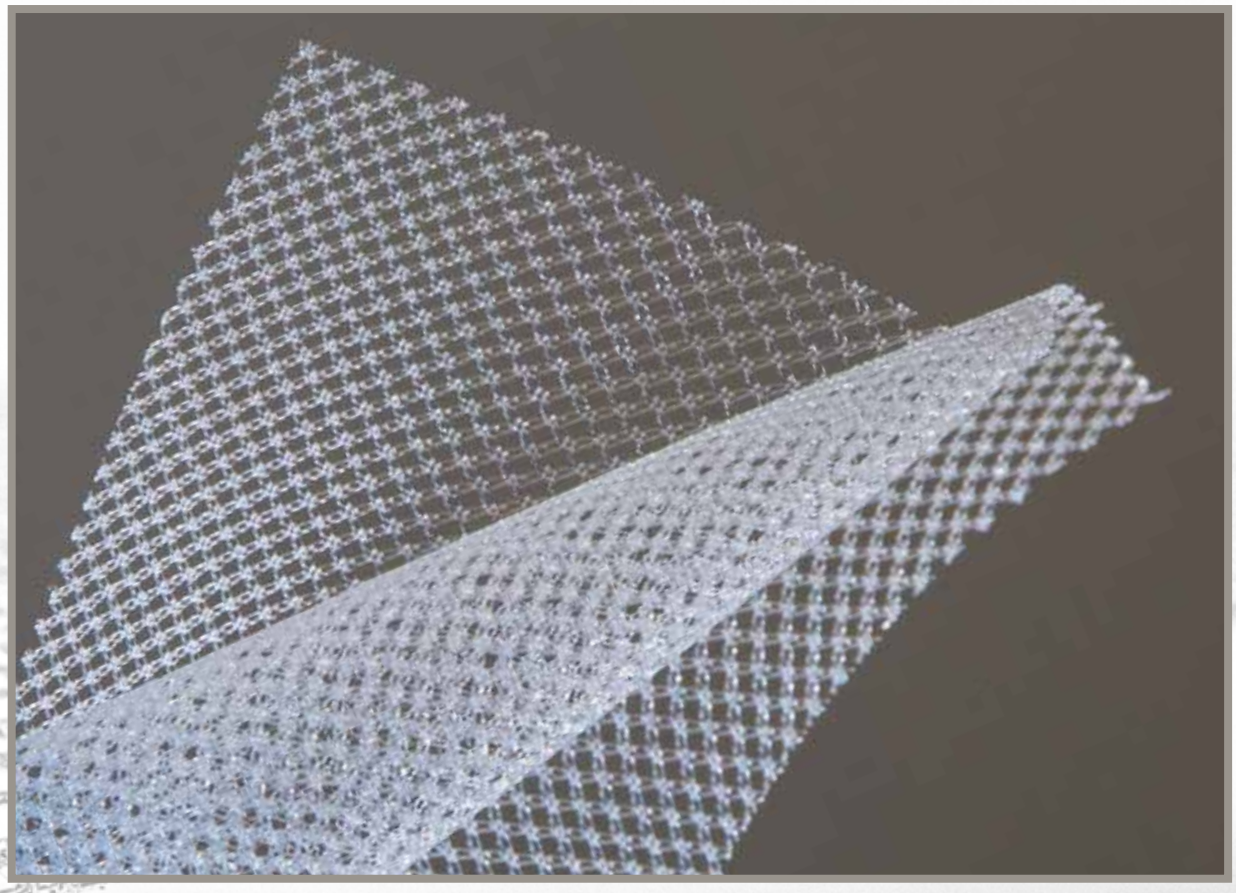
Characteristic	VitaMESH™
Areal Density	52 ± 8 g/m^2
Pore Size	2.4 ± 0.4 mm^2
Thickness	0.010” ± 0.002”
Burst Strength	344.3 N
Tensile Strength (Normal)	28.8 N
Flexural Rigidity/ Stiffness	5.2 N
Monofilament Diameter	0.006”

Performance Characteristics[1]: VitaMESH

- Strong and durable cPP material maintains consistent levels of strength, while avoiding the problems associated with composite meshes [1, 3, 4]

- Thin wall structure with less material for reduced scar tissue build up and minimized patient discomfort [5]

- Surface area and void area reduction for improved healing and biocompatibility [2]



- Transparent open pore structure facilitating fast incorporation and visualisation of underlying tissue structures [1]

- Up to 80% reduction in thickness and a low coefficient of friction over predicate devices, improving ease of use and trocar deployment [4]

References

1. *Bench testing at Aran Biomedical Limited – data on file.*
2. *Klinge, U. et al., "Foreign body reaction to meshes used for the repair of abdominal wall hernias," Eur J Surg (1999); 165: 665-673.*
3. *Schedbach, H. et al., "In vivo studies comparing the biocompatibility of various polypropylene meshes and their handling properties, during endoscopic total extraperitoneal (TEP) patchplasty," Surg Endosc (2004) 18: 211 – 220.*
4. *Deeken et al., "Mechanical properties of the abdominal wall and biomaterials utilized for hernia repair", Journal of the Mechanical Behavior of Biomedical Materials (2017), 74: 411-427.*
5. *Est et al., "Multi-directional mechanical analysis of synthetic scaffolds for hernia repair", Journal of the Mechanical Behavior of Biomedical Materials (2017), 71: 43-53.*

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