MHRS
Meril Hernia Repair Solutions

Meril
Endo-Surgery

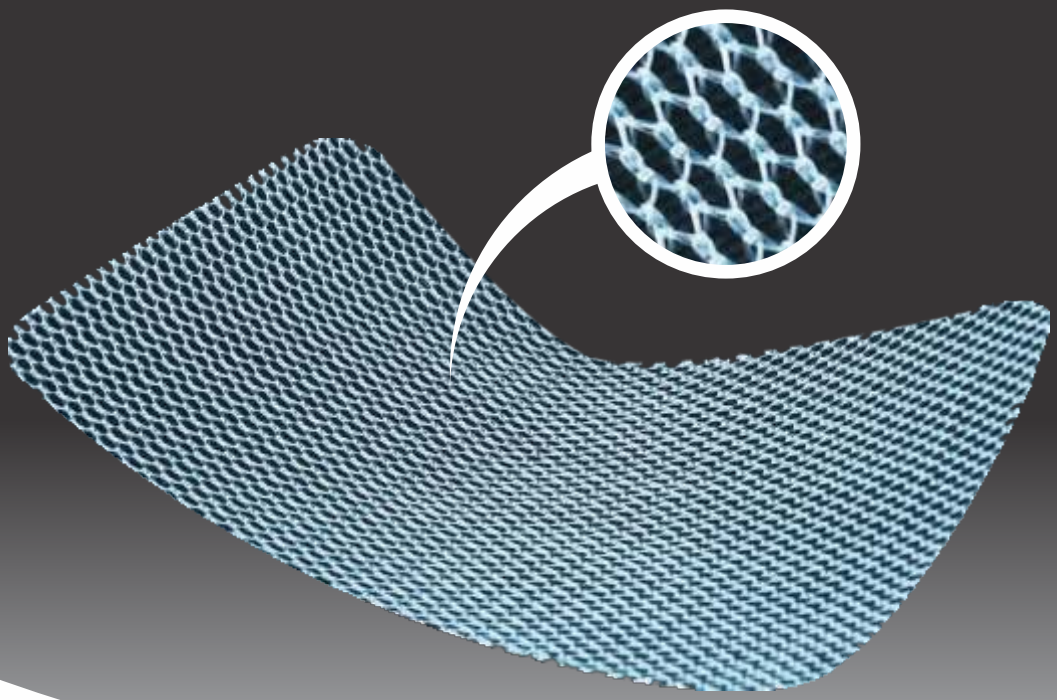
MERIGROW™ MESH

Polypropylene Macroporous Light Weight Mesh

The Ideal MESH

CE APPROVED

Optimum Combination of Strength & Elasticity



Pore size (2.3mm - 1.5mm)

- Large pores allow faster & better soft tissue ingrowth [1], lower foreign body reaction [2], resulting in formation of flexible scar.[1]
- Large pores allow infiltration by macrophages, fibroblasts, blood vessels, collagen and monocytes, reducing chances of mesh infection. [9]
- Large pores provide optimal flexibility with improved physical properties [1,2], allowing better activity profile post surgery.[2]

Weight (55 gsm)

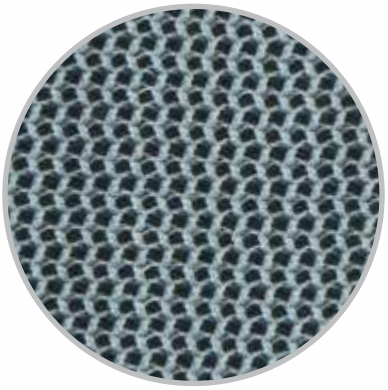
- Light weight causes less foreign body reaction [4], causing less fibrosis and chances of nerve entrapment. [1,5] This results in better tissue incorporation, increased compliance of the prosthesis and decreased patient discomfort and pain. [9]
- Light weight induces less formation of seroma. [1,3,6]

Elasticity (25%) and memory

- Large pores with light weight increase elasticity and reduce memory [2], which allows ease of handling during procedure and better patient comfort post surgery during normal body movements.
- Merigrow shape is adaptable in nature and has multidirectional elasticity which matches to abdominal wall dynamics as closely as possible and returns back to its original shape.

Burst Strength (98 N/cm2)

- Maximum intra abdominal pressure 24 kPa (2.4 N/cm2)
- Stronger tensile strength allows greater support to tissues during changing intra abdominal pressures. [1]



FILAPROP™ MESH
Polypropylene

FILAPROP™ MESH *Soft*
Polypropylene Soft

MERIGROW™ MESH
Polypropylene Macroporous

Parameter	Polypropylene Mesh	Polypropylene Soft Mesh	MERIGROW™ MESH
Material	Polypropylene	Polypropylene	Polypropylene
Absorption Profile	Non Absorbable	Non Absorbable	Non Absorbable
Pore size	1.0 mm -1.2mm	0.8 mm -1.0 mm	2.3 mm - 1.5 mm
Weight	100 gsm	45 gsm	55 gsm
Burst strength	106.30 N/cm	81.29 N/cm	98.06 N/cm
Thickness	0.48 mm	0.34 mm	0.60 mm

EHS Guildelines 2014 Inguinal repair

EHS Guidelines 2015 Abdominal wall repair

Herniasurge 2018

International guidelines recommend macroporous light weight mesh[7,8]

for

Open Ventral Hernia / eTEP / Open & Laparoscopic Inguinal Hernia

Merigrow Size Specifications Chart

Mesh Sizes in cm	FG Codes
6 x 11	PPMM611
7.6 x 15	PPMM715
10 x 15	PPMM1015
12 x 15	PPMM1215
12 x 18	PPMM1218
15 x 15	PPMM1515
15 x 20	PPMM1520
30 x 30	PPMM3030

References

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3. Horstmann R. et al. "Impact of polypropylene amount on functional outcome and quality of life after inguinal hernia repair by the TAPP procedure using pure, mixed, and titanium-coated meshes". World J Surg. 2006 Sep; 30(9):1742-9.
4. J.M. Bellon et al. "Comparing the behavior of different polypropylene meshes (heavy and lightweight) in an experimental model of ventral hernia repair" J Biomed Mater Res B Appl Biomater. 2009; 89:448-45
5. Klosterhalfen B. et al. "The lightweight and large porous mesh concept for hernia repair". Expert Rev Med Devices. 2005 Jan; 2(1):103-17.
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7. Miserez M. et al. "Update with level 1 studies of European Hernia Society guidelines on the treatment of inguinal hernia in adult patients", Hernia. 2014; 18(2):151-163
8. Muysoms F. et al. "European Hernia Society guidelines on the closure of abdominal wall incisions", Hernia. 2015; 19:1-24
9. Yilmaz Bilsel. et al. "The search for ideal hernia repair; mesh materials and types", International Journal of Surgery, 2012; 10(6):317-321.