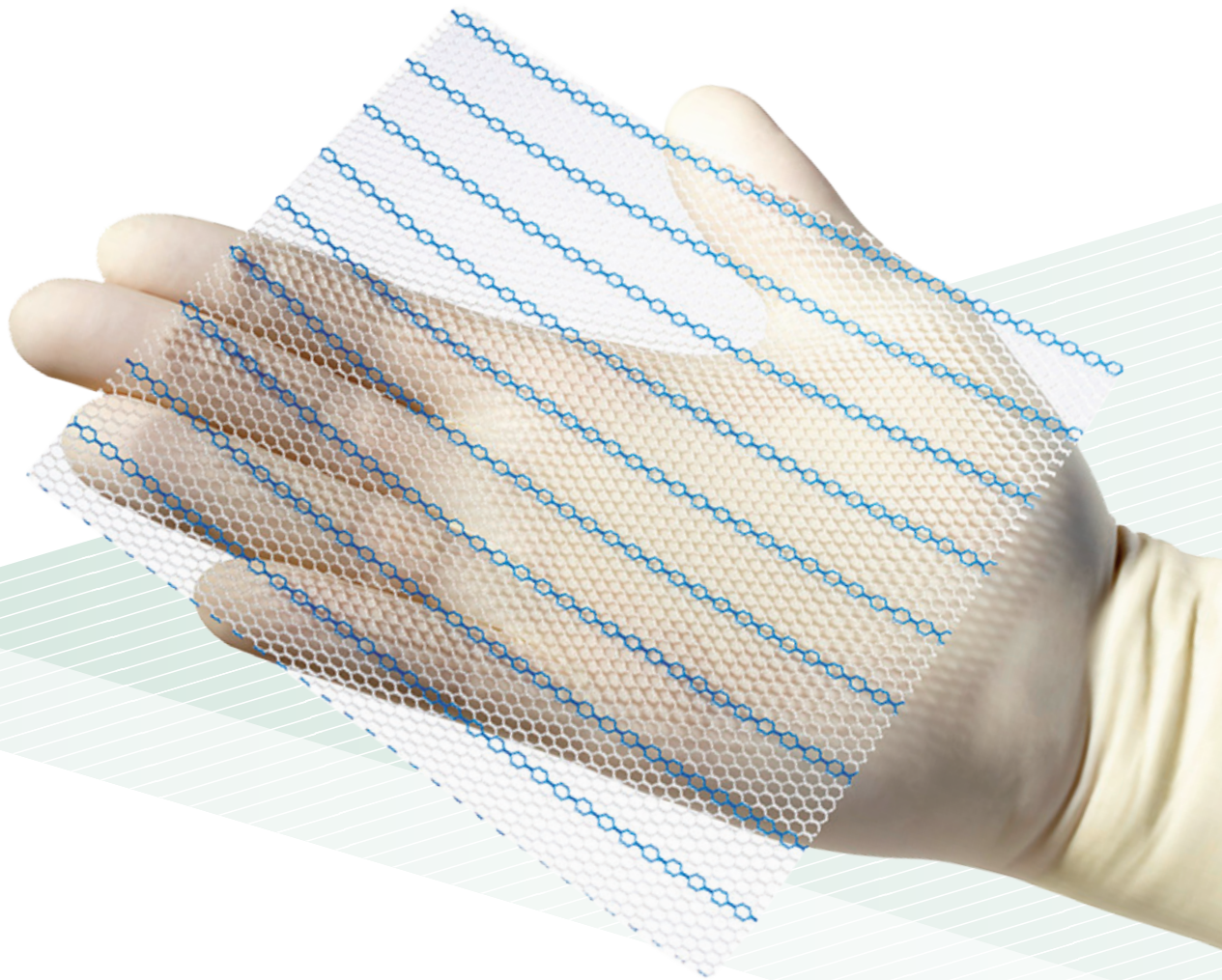
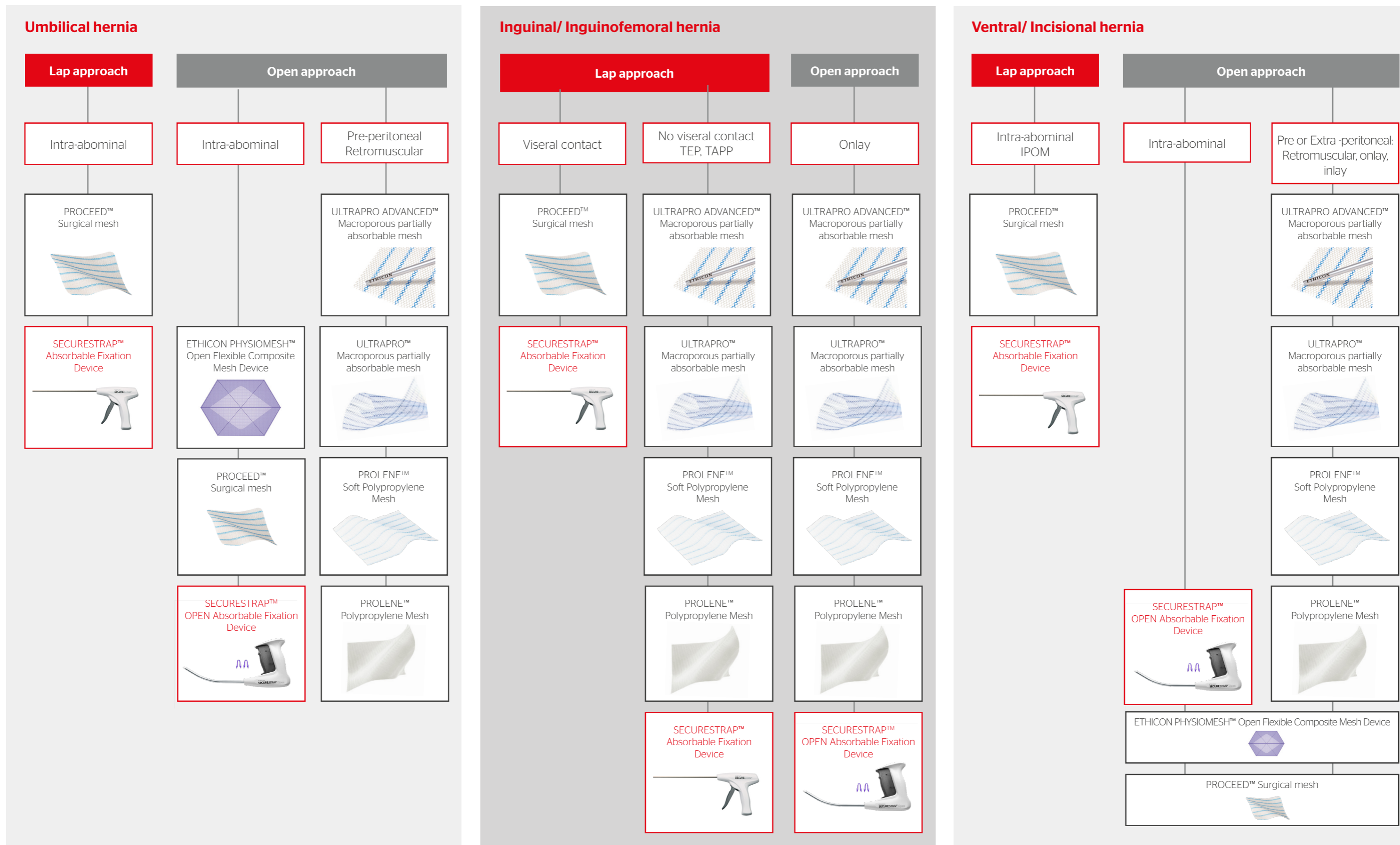


# ETHICON Hernia mesh & fixation portfolio

## Technical summary



# Comprehensive mesh & fixation solutions in hernia repair\*



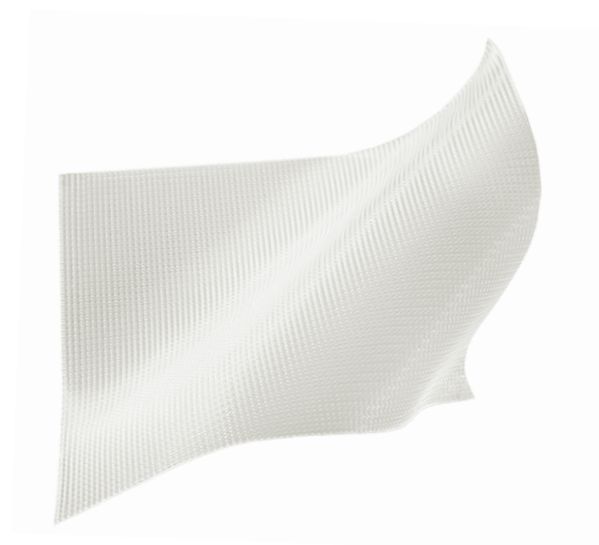
# Hernia Mesh Details Sheet

Device Name	<b>PROLENE™ Polypropylene Mesh</b>	<b>PROLENE™ Soft Polypropylene Mesh</b>	<b>ULTRAPRO™ Partially Absorbable Lightweight Mesh</b>	<b>ULTRAPRO ADVANCED™ Macroporous Partially Absorbable Mesh</b>	<b>PROCEED™ Surgical Mesh</b>	<b>ETHICON PHYSIOMESH™ Open Flexible Composite Mesh Device</b>
						
<b>Polymer, Filament Diameter [mil]</b>	Polypropylene, 5	Polypropylene, 3.5	Polypropylene, 3.5 Poliglecaprone-25, 5	Polypropylene, 3.5 Poliglecaprone-25, 5	Polypropylene, 3.5	Polypropylene, 3.5 Polydioxanone, 3.2
<b>Pore Size[mm]</b>	1.0	Vertical: 3.5 Horizontal: 2.5	3.2	2.8	Degraded: Vertical: 3.5' Horizontal: 2.5'	2.4
<b>Porosity*[%]</b>	53	67	Initial: 68 Degraded: 72	Initial: 65 Degraded: 67	Initial: N/A Degraded: 67	Initial: 62 Degraded: 71
<b>Weight[g/m2]</b>	76.0	43.6	Initial: 58.0 Degraded: 28.0	Initial: 71.1 Degraded: 39.1	Initial: 180.0 Degraded: 44.0	Initial: 62.0 Degraded: 30.0
<b>Mullen Burst[psi]</b>	234	109	Initial: 135 Degraded: 90	Initial: 104 Degraded: 91	Initial: 116 Degraded: 98	Initial: 112 Degraded: 103
<b>Burst Strength F<sub>max</sub> [N]</b>	2650 - 2850	940 - 1000	Degraded: 730 - 810	Degraded: 845 - 975	Degraded: 780 - 870	Degraded: 925 - 1000
<b>Burst Strength [mmHg]</b>	1990 - 2135	700 - 750	Degraded: 550 - 600	Degraded: 634 - 731	Degraded: 585 - 652	Degraded: 690 - 750
<b>Suture Pullout Strength Machine/ Cross [lb]</b>	11.2	6.5	Initial: 7.9 Initial: 6.7	Initial: 9.9 Initial: 7.3	Initial: 7.0 Initial: 10.1	Initial: 6.5 Initial: 5.9
	13.8	5.9	Degraded: 5.8 Degraded: 3.3	Degraded: 6.7 Degraded: 4.9	Degraded: 6.0 Degraded: 5.8	Degraded: 5.6 Degraded: 4.9
<b>Directional Tear Strength Machine/ Cross [lb]</b>	7.3	4.4	Initial: 5.6 Initial: 6.1	Initial: 3.8 Initial: 5.3	Initial: 5.8 Initial: 6.2	Initial: 4.4 Initial: 4.5
	9.0	2.6	Degraded: 1.8 Degraded: 2.9	Degraded: 2.1 Degraded: 3.7	Degraded: 3.9 Degraded: 3.9	Degraded: 3.6 Degraded: 4.0
<b>Sterilization Method</b>	EO	EO	EO	EO	CO60 Irradiation	EO

# PROLENE™ Polypropylene Mesh

## Product description

Mesh Key Facts	
Core mesh material	PROLENE™ Polypropylene Mesh The polypropylene polymer is identical to the material used in PROLENE™ Suture.
Pore size	1 mm
Partially Absorbable	No
Weight	76 g/m <sup>2</sup>
Customizable	Yes, may be trimmed according to surgeon's discretion
Shelf life	5 years
Tissue Separating Barrier	None
Procedure	<ul style="list-style-type: none"> <li>• Open Umbilical hernia repair</li> <li>• Open &amp; Lap Inguinal hernia repair</li> <li>• Open Ventral hernia repair</li> </ul> <p>PROLENE™ Mesh should not be used intraperitoneally.</p>



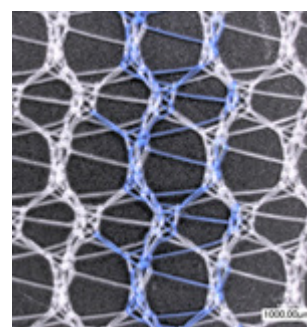
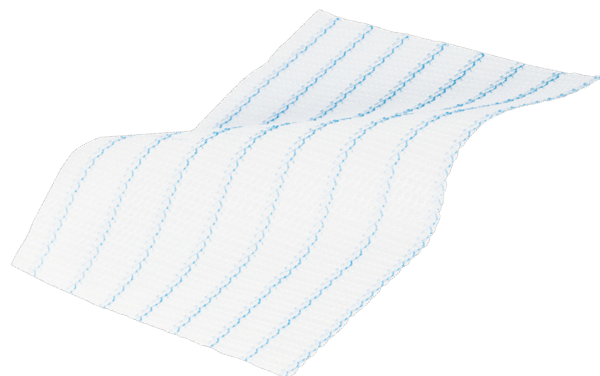
## Product information

Product code	Mesh size	Shape	EA/BOX
PML1	30 x 30 cm	Square	Sterile, 1 per box
PML3	30 x 30 cm	Square	Sterile, 3 per box
PMM1	15 x 15 cm	Square	Sterile, 1 per box
PMM3	15 x 15 cm	Square	Sterile, 3 per box
PMN3	15 x 10 cm	Rectangle	Sterile, 3 per box
PMR3	7.6 x 15 cm	Rectangle	Sterile, 3 per box
PMS1	6 x 11 cm	Rectangle	Sterile, 1 per box
PMS3	6 x 11 cm	Rectangle	Sterile, 3 per box
PMP3	10 x 12 cm	Rectangle	Sterile, 3 per box
PMLK1	6 x 13.7 cm	Pre-shaped keyhole	Sterile, 1 per box
PMLK3	6 x 13.7 cm	Pre-shaped keyhole	Sterile, 3 per box
PMSK1	4.5 x 10.1 cm	Pre-shaped keyhole	Sterile, 1 per box
PMSK3	4.5 x 10.1 cm	Pre-shaped keyhole	Sterile, 3 per box

# PROLENE™ Soft Polypropylene Mesh

## Product description

Mesh Key Facts	
Core mesh material	PROLENE™ Polypropylene Mesh The polypropylene polymer is identical to the material used in PROLENE™ Suture.
Pore size	Vertical: 3.5 mm Horizontal: 2.5 mm
Partially Absorbable	No
Weight	44 g/m <sup>2</sup>
Customizable	Yes, may be trimmed according to surgeon's discretion*
Shelf life	5 years
Tissue Separating Barrier	None
Procedure	<ul style="list-style-type: none"> <li>• Open Umbilical hernia repair</li> <li>• Open &amp; Lap Inguinal hernia repair</li> <li>• Open Ventral hernia repair</li> </ul> <p>PROLENE™ Soft polypropylene Mesh should not be used intraperitoneally.</p>



## Product information

Product code	Mesh size	Shape	EA/BOX
SPMXS	2.5 x 10 cm	Rectangle	Sterile, 6 per box
SPMS	6.4 x 11.4 cm	Rectangle	Sterile, 6 per box
SPMII	7.6 x 15 cm	Rectangle	Sterile, 6 per box
SPMH	15 x 15 cm	Square	Sterile, 6 per box
SPMLI	25 x 25 cm	Square	Sterile, 3 per box
SPMXXL	30.5 x 35.6 cm	Rectangle	Sterile, 3 per box
SPM3XL	50 x 50 cm	Square	Sterile, 3 per box

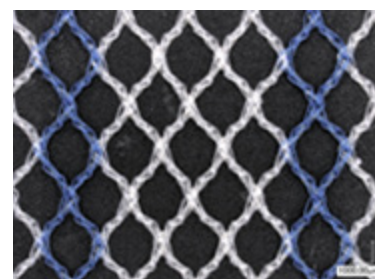
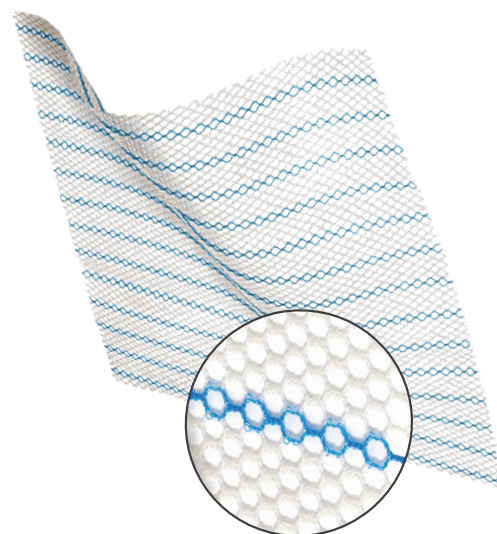
\*The surgeon should provide the necessary overlap to reduce the risk of recurrence. The use of thermal cutting devices is not recommended, because it has not been tested.



# ULTRAPRO™ Partially Absorbable Mesh

## Product description

Mesh Key Facts	
Core mesh material	Absorbable poliglecaprone-25 monofilament fiber (MONOCRYL) and nonabsorbable polypropylene monofilament fiber (PROLENE Polypropylene suture)
Pore size	3.2 mm
Partially Absorbable	Yes, MONOCRYL (Poliglecaprone 25), USP #5-0
Weight	Before Absorption: 58 g/m <sup>2</sup> After Absorption: 28 g/m <sup>2</sup>
Absorption time*	91 days
Customizable	Yes, may be trimmed according to surgeon's discretion†
Shelf life	5.5 years
Tissue Separating Barrier	None
Procedure	<ul style="list-style-type: none"> <li>• Open Umbilical hernia repair</li> <li>• Open &amp; Lap Inguinal hernia repair</li> <li>• Open Ventral hernia repair</li> </ul> <p>ULTRAPRO™ Mesh should not be used intraperitoneally.</p>



## Product information

Product code	Mesh size	Shape	EA/BOX
UMS1	6 x 11 cm	Rectangle	Sterile, 1 per box
UMS3	6 x 11 cm	Rectangle	Sterile, 3 per box
UMR3	7.6 x 15 cm	Rectangle	Sterile, 3 per box
UMM1	15 x 15 cm	Square	Sterile, 1 per box
UMM3	15 x 15 cm	Square	Sterile, 3 per box
UML1	30 x 30 cm	Square	Sterile, 1 per box
UMN1	10 x 15 cm	Rectangle	Sterile, 1 per box
UMN3	10 x 15 cm	Rectangle	Sterile, 3 per box
UMP3	10 x 12 cm	Rectangle	Sterile, 3 per box
UMT1	15 x 30 cm	Rectangle	Sterile, 1 per box

\* The absorbable portion of the mesh is absorbed in approximately 91 days, leaving the nonabsorbable portion remaining for the lifetime of the patient unless removed.

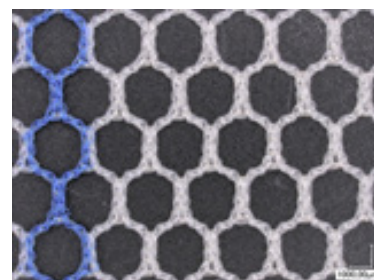
† The surgeon should provide the necessary overlap to reduce the risk of recurrence. The use of thermal cutting devices is not recommended, because it has not been tested.

# ULTRAPRO ADVANCED™

## Macroporous Partially Absorbable Mesh

### Product description

Mesh Key Facts	
Core mesh material	Absorbable poliglecaprone-25 monofilament fiber (MONOCRYL) and nonabsorbable polypropylene monofilament fiber (PROLENE Polypropylen suture)
Pore size	2.8 mm
Partially Absorbable	Yes, MONOCRYL (Poliglecaprone 25), USP #5-0
Weight	Before Absorption: 71.1 g/m <sup>2</sup> After Absorption: 39.1 g/m <sup>2</sup>
Absorption time*	91 days
Customizable	Yes, may be trimmed according to surgeon's discretion
Shelf life	2 years
Tissue Separating Barrier	None
Procedure	<ul style="list-style-type: none"> <li>• Open Umbilical hernia repair</li> <li>• Open &amp; Lap Inguinal hernia repair</li> <li>• Open Ventral hernia repair</li> </ul> <p>ULTRAPRO ADVANCED™ Mesh should not be used intraperitoneally.</p>



### Product information

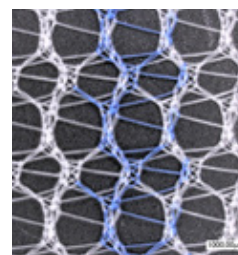
Product code	Mesh size	Shape	EA/BOX
UPA612	6 x 12 cm	Rectangle	Sterile, 1 per box
UPA3612	7 x 12 cm	Rectangle	Sterile, 3 per box
UPA37615	7.6 x 15 cm	Rectangle	Sterile, 3 per box
UPA1015	10 x 15 cm	Rectangle	Sterile, 1 per box
UPA31015	10 x 15 cm	Rectangle	Sterile, 3 per box
UPA1515	15 x 15 cm	Square	Sterile, 1 per box
UPA31515	15 x 15 cm	Square	Sterile, 3 per box
UPA1530	15 x 30 cm	Rectangle	Sterile, 1 per box
UPA3030	30 x 30 cm	Square	Sterile, 1 per box

\* The absorbable portion of the mesh is absorbed in approximately 91 days, leaving the nonabsorbable portion remaining for the lifetime of the patient unless removed.

# PROCEED™ Surgical Mesh

## Product description

Mesh Key Facts	
Core mesh material	Oxidized regenerated cellulose (ORC) and PROLENE™ Soft Polypropylene Mesh (PROLENE Polypropylen suture) & PDS™ (polydioxanone) Suture polymer film creates a bond between the polypropylene and ORC.
Pore size (degraded)	Vertical: 3.5 mm / Horizontal: 2.5 mm
Partially Absorbable	Yes, ORC
Weight	Before Absorption: 180 g/m <sup>2</sup> After Absorption: 44g/m <sup>2</sup>
Absorption time	ORC 4 weeks / PDS 6 months
Customizable	Yes, may be trimmed according to the surgeon's discretion but the surgeon should provide the necessary overlap*
Shelf life	2 years
Tissue Separating Barrier	Yes, ORC
Procedure	<ul style="list-style-type: none"> <li>Lap Umbilical hernia repair</li> <li>Lap Inguinal hernia repair</li> <li>Open &amp; Lap Ventral hernia repair</li> </ul>



## Product information

Product code	Mesh size	Shape	EA/BOX
PCDB1	5 x 10 cm	Rectangle	Sterile, 1 per box
PCDD1	10 x 20 cm	Rectangle	Sterile, 1 per box
PCDG1	15 x 20 cm	Oval	Sterile, 1 per box
PCDH1	20 x 25 cm	Oval	Sterile, 1 per box
PCDJ1	20 x 30 cm	Rectangle	Sterile, 1 per box
PCDL1	30.5 x 30.5 cm	Square	Sterile, 1 per box
PCDM1	15 x 15 cm	Square	Sterile, 1 per box
PCDN1	10 x 15 cm	Oval	Sterile, 1 per box
PCDR1	7.5 x 15 cm	Rectangle	Sterile, 1 per box
PCDT1	25.4cm x 33.0 cm	Oval	Sterile, 1 per box
PCDW1	25.4cm x 35.6 cm	Rectangle	Sterile, 1 per box

\*The use of thermal cutting devices is not recommended because it has not been tested.

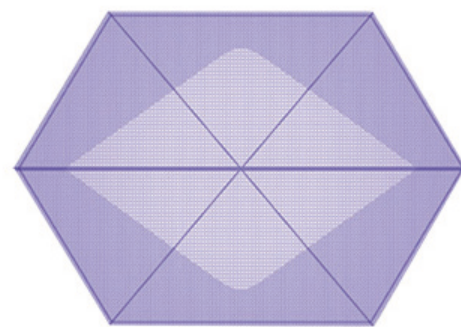


# ETHICON PHYSIOMESH™

## Open Flexible Composite Mesh Device

### Product description

Mesh Key Facts	
Core mesh material	PROLENE™ Polypropylene and PDS™ polydioxanone fibers, laminated to an absorbable poliglecaprone 25 film
Pore size	2.4 mm
Partially Absorbable	Yes, poliglecaprone 25 polymers
Weight	Before Absorption: 62 g/m <sup>2</sup> After Absorption: 30 g/m <sup>2</sup>
Absorption time	PDS™ 6 months
Customizable	N/A
Shelf life	2 years
Tissue Separating Barrier	Yes
Procedure	<ul style="list-style-type: none"> <li>Open Ventral hernia repair</li> </ul>



### Product information

Product code	Mesh size*	EA/BOX
OPHY1010	10 x 10 cm	Sterile, 1 per box
OPHY1215	12 x 15 cm	Sterile, 1 per box
OPHY1520	15 x 20 cm	Sterile, 1 per box
OPHY1525	15 x 25 cm	Sterile, 1 per box
OPHY2030	20 x 30 cm	Sterile, 1 per box
OPHY2536	25 x 36 cm	Sterile, 1 per box

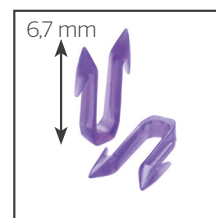
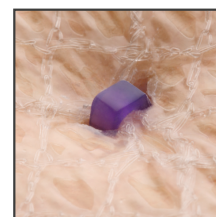
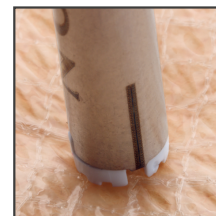
\*As per Instructions for Use, ensure that the ETHICON PHYSIOMESH™ Open device used is large enough to extend approximately 3 to 5 cm beyond the margins of the hernia defect to provide adequate overlap onto healthy fascia.

# ETHICON SECURESTRAP™

## Absorbable Fixation Device

### Product description

Key Facts	
Description	SECURESTRAP™ Absorbable Fixation Device contains 25 or 12 synthetic absorbable straps, preloaded into the device 36 cm long shaft. The device is designed for introduction and use through a 5 mm or larger laparoscopic port sleeve
Material	SECURESTRAP™ Absorbable Fixation Device straps are made of a blend of polydioxanone and L(-)-lactide/glycolide copolymer dyed with D&C violet No. 2. The inserted length of the strap is 6.7mm.
Absorption time	12-18 months
Shelf life	2 years
Procedure	<ul style="list-style-type: none"> <li>Fixation of prosthetic material to soft tissues in various minimally invasive and open surgical procedures</li> </ul>



### Product information

Product code	# straps	EA/BOX
STRAP25	25 straps per device	Sterile, 6 per box
STRAP25R	25 straps per device	Sterile, 1 per box
STRAP12	12 straps per device	Sterile, 6 per box

# ETHICON SECURESTRAP™ OPEN Absorbable Fixation Device

## Product description

Key Facts	
Description	The ETHICON SECURESTRAP™ Open Fixation Device is a trigger-squeeze mechanical device with a curved cannula, pre-loaded with 20 absorbable straps. The tip of the device is designed to facilitate the placement of prosthetic material and straps.
Material	SECURESTRAP™ Absorbable Fixation Device straps are made of a blend of polydioxanone and L(-)-Lactide/glycolide copolymer dyed with D&C violet No. 2. The inserted length of the strap is 6.7mm.
Absorption time	12-18 months
Shelf life	2 years
Procedure	<ul style="list-style-type: none"> <li>• Fixation of prosthetic material to soft tissues in open surgical procedures</li> </ul>



## Product information

Product code	# straps	EA/BOX
OPSTRAP20R	20	Sterile, 1 per box
OPSTRAP20	20	Sterile, 6 per box

**Please refer always to the Instructions for Use / Package Insert that come with the device for the most current and complete instructions.**

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[www.jnjmedicaldevices.com](http://www.jnjmedicaldevices.com)

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Shaping  
the future  
of surgery

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