

Description

LF implant, also known as « with cover » implant, is a IIb⁽²⁾ class biocompatible⁽¹⁾ device. This implant is specially designed for reducing the movements of the implant after surgery. Thanks to its covering mechanism, the implant is optimally placed around the spermatic canal during the operation, and provides optimal placement and holding properties.

LF implant is indicated for groin hernia treatment and is used under open Lichtenstein procedure.

LF implant is sterilized under EO process and is available 5 years after sterilization. This implant is sold in Tyvek pouches, and packaged in filmed cardboard boxes.

(1) According to ISO 10993 – 1

(2) According to European directive 93/42/CEE (2007/47/CE)

Advantages

- ⊕ Excellent shape memory properties
- ⊕ Optimal flexibility for an easy placement in the hernia location.
- ⊕ Covering mechanism for an easy placement around the spermatic canal and for reducing the movements of the implant after surgery.


Materials

LF implants are available in :

- ❖ Knitted Polyester (PET)
- ❖ Tridimensional Polyester (TRIMESH)
- ❖ Knitted Polypropylene:
 - Standard Mesh (PPT Std)
 - Light Weight Mesh (PPT LW)

	Knitted polypropylene		Knitted Polyester	
	Standard weight PPT Std	Light Weight PPT LW	Bidimensional (PET)	Tridimensional (TRIMESH)
Composition	100% Isotactic Polypropylene Knitted Mono filament double strand Ø 0.15 mm		100% Terephthalate Polyethylene Knitted multifilament Ø 76dTex 22	100% Terephthalate Polyethylene Spacer dTex 50,24
Process	Ladderproof		Ladder-proof knitting	
Basis weight	90g/m ²	60g/m ²	100 g/m ²	120g/m ²
Thickness	0,6 mm		0,6 mm	2,25 mm
Pore Size	0,7 mm ²	2,3 mm ²	1,9 mm ²	-
Burst resistance ISO 13938 – 1	>500kPa		>500 kPa	>400 kPa
Maximal strength ISO 13934 – 1 (PET, PPT) EDANA 20-2-89 (PPNT)	>180N (Warp direction) >320N (Fill direction)	>160N (sens colonnes) >210N (sens rangées)	>200N (weft direction) >400N (warp direction)	>160N (weft direction) >160N (warp direction)
Elongation at break ISO 13934 – 1 (PET, PPT) EDANA 20-2-89 (PPNT)	>80% (Warp direction) >50% (Fill direction)	>100% (sens colonnes) >70% (sens rangées)	>40% (weft direction) >50% (warp direction)	>35% (weft direction) >35% (warp direction)
Porosity NF S 94-801 :2007	50%	60%	60%	96%
Oiling rate NF S 94 – 167 – 5	<1,2%			
Rejection	-			
Surfactant residue rate NF EN 1644 - 1	0%			

References

	PPT Std	PPT LW	TRIMESH + PET
 LF Implant 5x10cm	413105	414105	666105
LF Implant 6x12cm	413126	414126	666126
LF Implant 7x12cm	413127	414127	666127
LF Implant 9x13cm	413130	414130	-

Kit References (LF implant + PLUG)

 + 	PLUG-P Ø9cm	+ LF implant 5x10 = 413008 + LF implant 6x12 = 413009 + LF implant 7x12 = 413006 + LF implant 9x13 = 413004
	PLUG-S Ø7cm	+ LF implant 6x12 = 411703 + LF implant 7x12 = 411702 + LF implant 9x13 = 411704
	PLUG-S Ø9cm	+ LF implant 5x10 = 411901 + LF implant 7x12 = 411902 + LF implant 9x13 = 411904

Clinical data / Bibliography

- ❖ [035] The lightweight and large porous mesh concept for hernia repair – Review ISSN 1743-440, Futures Drugs Ltd. 2005
- ❖ [038] Randomized clinical trial comparing lightweight composite mesh with polyester or polypropylene mesh for incisional hernia repair – J. Conze, A.N. Kingsnorth, JB. FLAMENT, R. SIMMERMARCHE, G. ARLT, C. LANGER, E. SCHIPPERS, M. HARTLEY and V. SCHUMPELICK – British Journal of surgery 2005;92:1488-1493
- ❖ [072] Tolérance des prothèses herniaires. Caractéristiques de principaux matériaux utilisés - E. ESTOUR – La Journal de Cardio-chirurgie- N°53, Mars2005
- ❖ [107] The argument for Lightweight polypropylene Mesh in hernia Repair - W. S. COBB, K.W. KERCHER, B. TODD HENIFORD – Surgical innovation, vol 12, no 1 (march), 2005: pp63-69

Signs used in the labels and in the Instruction For Use



Refer to IFU D133



Do not use if damaged packaging



Device sterilized under EO process (PPT Std & PPT LW Implants)



For single use only



Do not sterilize again



Device sterilized with GAMMA (PET & TRIMESH Implants)



Available 5 years after sterilization



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