LG IMPLANTS TECHNICAL DATASHEET

Synthetic mesh for inguinal hernia by laparotomy





1. Administrative information about MICROVAL

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2. Device information

- 2.1 Common name: Synthetic permanent implant for abdominal wall reinforcement
- 2.2 Commercial name: LG implant
 - Nomenclature code: GMDN 60300 2.3 EMDN P900202
 - Class of medical device: IIb according to European Directive 93/42/CEE (2007/47/CE)

Notified Body number: 1639 Date of first sale: 2007 Manufacturer: MICROVAL





MICROVAL

Certificate No.: FR19-81843429

2.5 Device's description:

- These implants can be implanted by Lichtenstein procedure and its derivatives.
- * Available in male or female versions (slot for spermatic cord or not).
- These permanent implants and their very high burst strength allow a durable inguinal reinforcement.

Characteristics	Value*
Mesh type	Knitted monofilament polypropylene – lock stitch
Construction	Standard
Thickness ¹	0.56 mm
Weight ²	90 g/m²
Max pore size ³	1.31 mm
Porosity ⁴	≥77%
Burst resistance ⁵ (max in vivo value ≈ 170mmHg ^a)	≥ 6135mmHg
Strain at Ultimate Tensile Test ⁶	102% (longitudinal)
	111% (transverse)
Durability	Permanent
Surgical technique	Laparotomy Lichtenstein
Microscopic view of the mesh	
*Average values given as an indication	

S94-801 (2007) method B; ⁴ NF S94-801(2007) method A EN ISO 13938-1(2019); ⁶ NF EN ISO 13934-1 (2013) EN ISO 5084 (1996); 2 ISO 3801 (1977) method 5 ¥ ¥

^a Pott et al. 2012, « Mechanical Properties of Mesh Materials Used for Hernia Repair and Soft Tissue Augmentation », PLoS ONE 7(10): e46978. doi:10.1371/journal.pone.0046978

2.6	References:							
		Size	Destination	Shape	Standard Polypropylene			
		6 x 12 cm	Woman ♀	7	413 135			
		0 X 12 CIII	Man ♂		413 136			
2.7	Device composition: 100% polypropylene ✓ No latex ✓ No phthalates ✓ No products of animal or organic origin							
	2.8 Field of use – Indications: Abdominal wall reinforcement. Treatment of hernias and eventration.							
3.1	3. Sterilization							
3.2	Sterilized: ☑YES □NO Sterilization process: Ethylene Oxide according to NF EN ISO11135:2014 and NF EN ISO10993-7:2008(A1:2019)							
-	4. Storage conditions Packaging: 1 implant packed in double Tyvek AND filmed cardboard box 240mm x 222mm x 20mm (non-contractual photograph)							
	Expiration: 5 years after sterilization Storage: no particular conditions, store at ambient temperature, please read D133 IFU							
5. Safety								
	Please read Instruct	tions for Use D13	3					
	6. Usage							
6.1	IFU: D133							
6.2	Indication: Abdominal wall reinforcement. Treatment of hernia and eventration.							
6.3	<u>Precautions of use:</u> Before operation, please check that all specific instruments for the operation are available and functional. Avoid any contact with objects which could damage the device. The damaged devices and/or that have been in contact with a patient must be isolated and disinfected before cleaning and possible back forwarding. Caution: a defect in the fixing or positioning of the device can induce abnormal stresses and/or reduce the service life.							
6.4	4 <u>Contra-indications:</u> Children during their growth, intensive and/or violent physical activities; Allergic reaction. Serious illness inducing a risk of dangerous post-operative complication. Infection and septicemia are absolute contra-indications.							
7. Additional information concerning the product								
	Bibliography, test reports: • [Ref0510] "Standard polypropylene mesh vs lightweight mesh for Lichtenstein repair of primary inguinal hernia: a randomized controlled trial", Z DEMTRASHVILI, K KHUTSISHVILI, I PIPIA, G KENCHADZE, E EKALADZE, Int J of Surgery 2014, 12:1380-1384							
	* [Ref0509] "Open Mesh Techniques for inguinal hernia repair: a meta-analysis of randomized controlled trials", C							

[Ref0020] "Etude rétrospective et analytique du traitement des hernies inguinales de l'adulte sur 130 patients de 1996

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