




Expert Technologies in **PVDF**

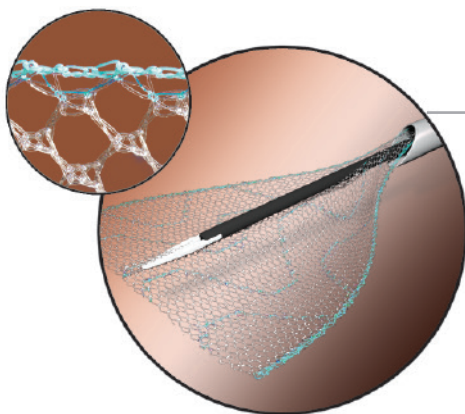
 made
in
Germany

DynaMesh[®]-ENDOLAP

Especially engineered for endoscopic
and laparoscopic repair of inguinal hernias

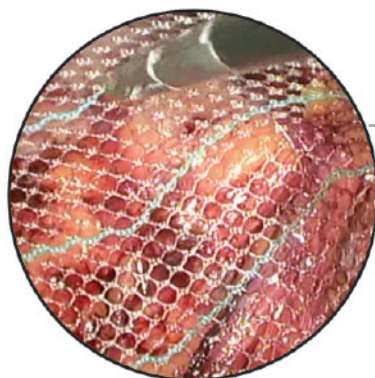
-  Excellent Material: 100 % PVDF
-  Perfect Mesh Structure
-  Atraumatic Selvedges

Perfect Mesh Structure



Unique Technology

The special textile construction facilitates the setting through the **trocar** as well as the unfolding in the operation field. The unique surface and selvedge construction offers the crease-free positioning of the implant. The green orientation lines provide visual control of a tension-free mesh position.



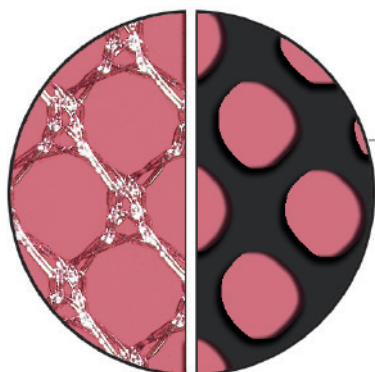
Application of DynaMesh®-ENDOLAP

This hernia mesh was developed especially for the endoscopic (TEP)¹⁾ and laparoscopic (TAPP) technique.



Qualified for all methods of fixation

In case mesh fixation appears essential to the surgeon all common techniques can be used.



before after

Optimal Pore Size

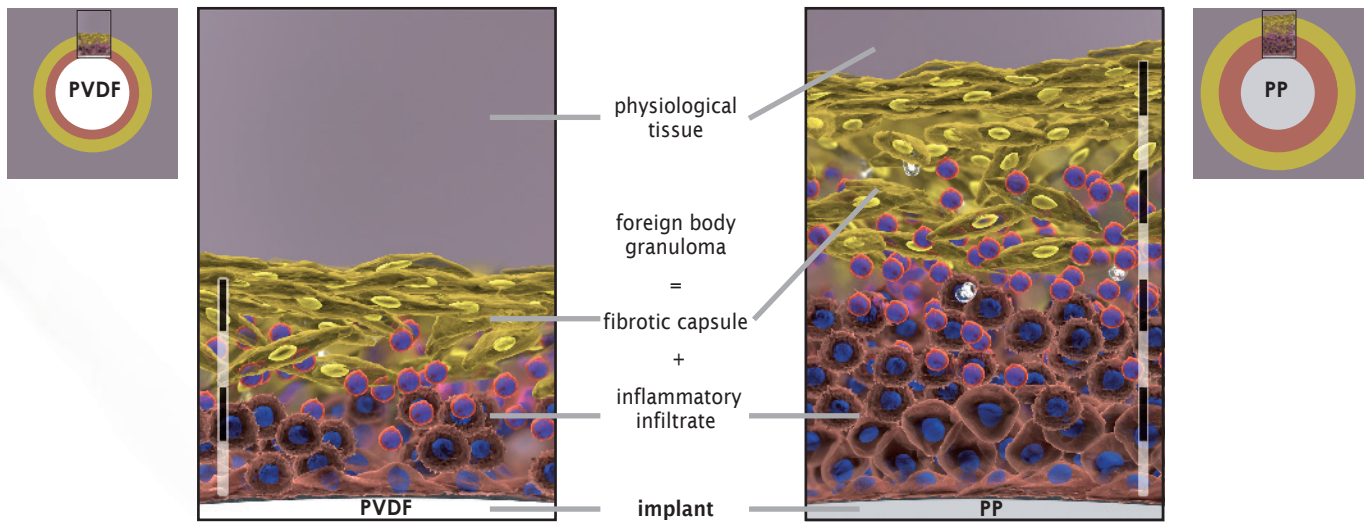
The special warp-knitted structure offers a very high textile porosity **before** and an excellent effective porosity (63.4%) **after** incorporation. This avoids bridging which leads to high patient comfort.

¹⁾ photo by courtesy of Dr. A. Kuthe, DRK-Krankenhaus Clementinenhaus, Hannover

Excellent Material: PVDF

Less Foreign Body Reaction

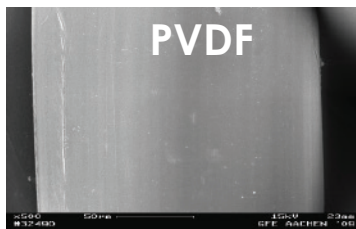
The minimized foreign body reaction reliably prevents from bridging leading to highest patient comfort.



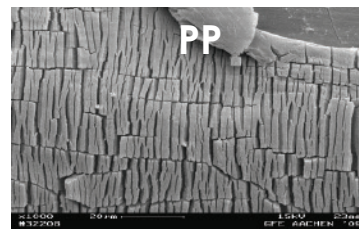
Klosterhalfen, B., Institute of Pathology, Hospital Düren „Foreign Body Reaction“ (2010)

Superior Ageing Resistance

After many years of application in various surgical disciplines the high performance polymer PVDF has proven its worth compared to PP: Enduring high preservation of surface integrity and fibre stability leading to long-term patient safety.



scanning electron microscope (SEM) images of explants



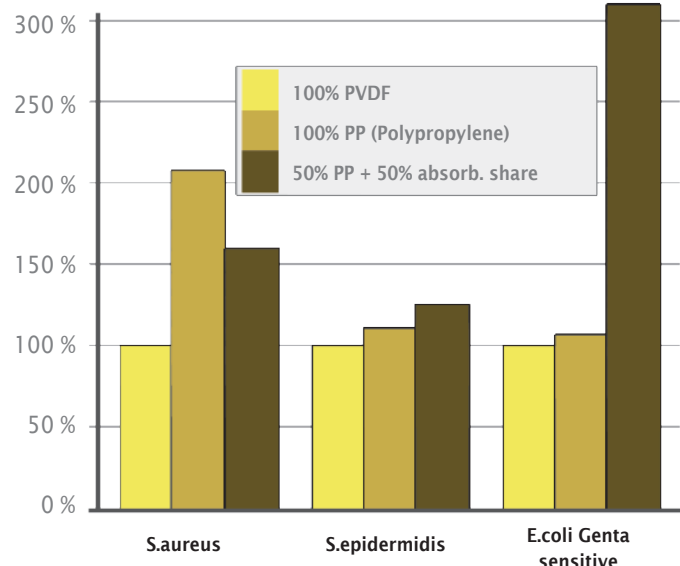
Klink, C.D. et al. „Comparison of long-term biocompatibility of PVDF and PP meshes.“ (Journal of Investigative Surgery, 2011)

Junge, K. et al. „Damage to the spermatic cord by the Lichtenstein and TAPP procedures in a pig model.“ (Springer Science + Business Media, 2010)

Laroche, G. et al. „Polyvinylidene Fluoride Monofilament Sutures: Can they be used safely for long-term anastomoses in the thoracic aorta?“ (International Society of Artificial Organs, 1995)

Reduced Bacterial Adherence

During a recent investigational study of the University Hospital Aachen cultures of microbial strains of relevant germs have been given onto different mesh material. The fluorine essence measure afterwards showed a marginal quantity of germs adhering on meshes made from pure PVDF. The risk of infection considerably decreases at reduced bacterial adherence.



Klosterhalfen, B., Institute of Pathology, Hospital Düren, Junge, K. and Klinge, U., University Hospital Aachen „Comparison of bacterial adhesences“ (2010)

Technical Data

DynaMesh®-ENDOLAP

Material: 100% PVDF (Polyvinylidene Fluoride) monofilament

Effective porosity: 63.4 %¹⁾

Reactive surface: 1.35 m²/m²

Suture pull out strength: 31 N

Tear propagation resistance: 21 N

Classification: 1a²⁾

Fixation: All common fixation methods

¹⁾ Method according to Mühl, T. et al.
„New objective measurement to characterize
the porosity of textile implants.“
(Journal of Biomedical Materials Research,
Part B: Applied Biomaterials, 2007)

²⁾ Modified Amide Classification according to Klinge, U. 4/2010

Delivery Program

DynaMesh®-ENDOLAP

Size: 7.5 cm x 15 cm	REF PV100715F3	BX = 3 EA
Size: 10 cm x 15 cm	REF PV101015F1	BX = 1 EA
Size: 10 cm x 15 cm	REF PV101015F3	BX = 3 EA
Size: 10 cm x 17 cm	REF PV101017F1	BX = 1 EA
Size: 10 cm x 17 cm	REF PV101017F3	BX = 3 EA
Size: 12 cm x 15 cm	REF PV101215F1	BX = 1 EA
Size: 12 cm x 15 cm	REF PV101215F3	BX = 3 EA
Size: 12 cm x 17 cm	REF PV101217F1	BX = 1 EA
Size: 12 cm x 17 cm	REF PV101217F3	BX = 3 EA
Size: 13 cm x 15 cm	REF PV101315F1	BX = 1 EA
Size: 13 cm x 15 cm	REF PV101315F3	BX = 3 EA
Size: 13 cm x 17 cm	REF PV101317F1	BX = 1 EA
Size: 13 cm x 17 cm	REF PV101317F3	BX = 3 EA
Size: 15 cm x 15 cm	REF PV101515F3	BX = 3 EA

www.dyna-mesh.com

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fabriqué par / fabricado por /

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