





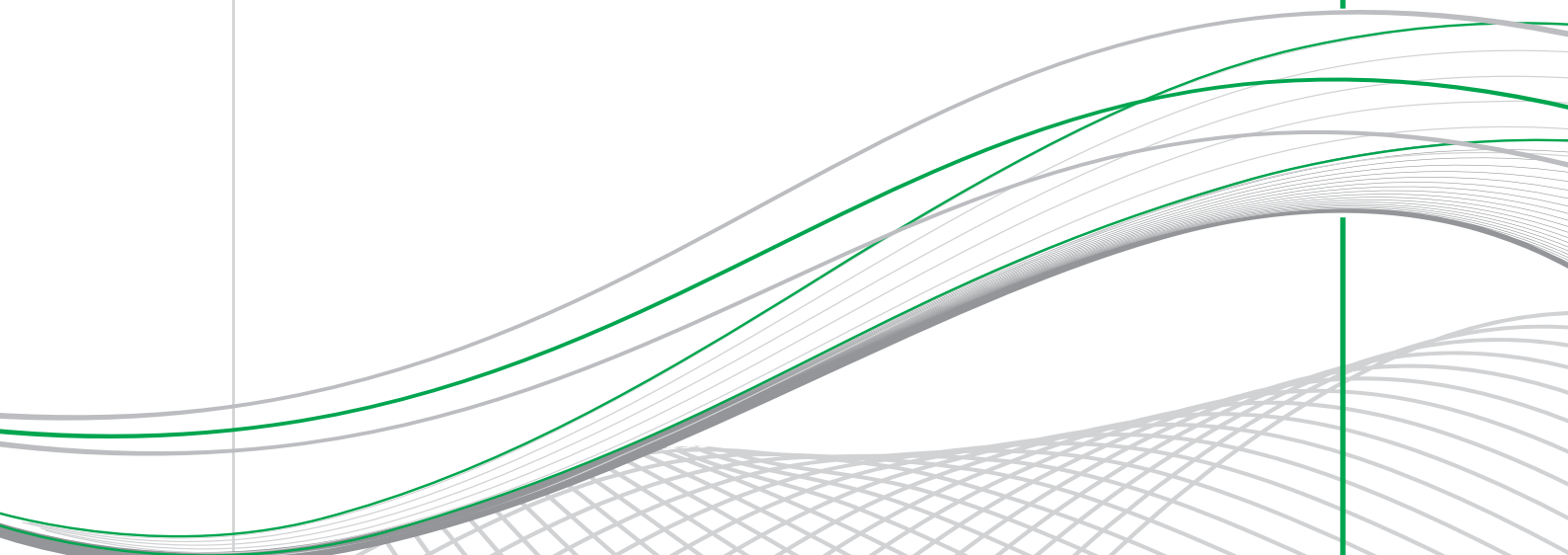


Expert Technologies in **PVDF**

 made  
in  
Germany

# DynaMesh<sup>®</sup>-CICAT

Engineered especially for repair and prophylaxis  
of incisional hernias in open extraperitoneal surgery

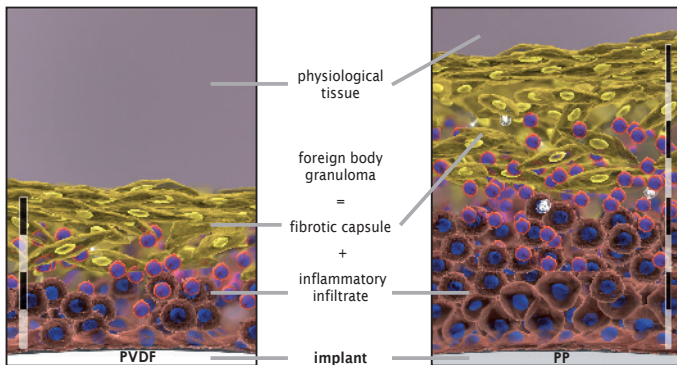
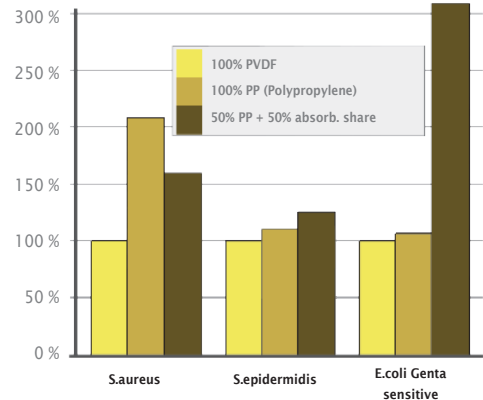
-  Excellent Material: 100% PVDF
  -  High mesh stability and tear propagation resistance
  -  Optimally adjusted Tri-Elasticity
  -  Special sizes for longitudinal and transverse incisions
- 

# Excellent Material: PVDF

## 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. Especially for all open surgeries techniques this is of major importance as the risk of infection considerably decreases at reduced bacterial adherence.

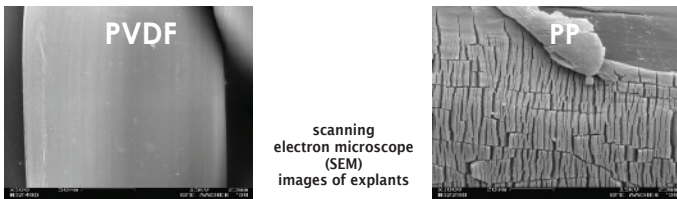
Klosterhalfen, B., Institute of Pathology, Hospital Düren, Junge, K. and Klinge, U., University Hospital Aachen "Comparison of bacterial adherences" (2010)



## 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

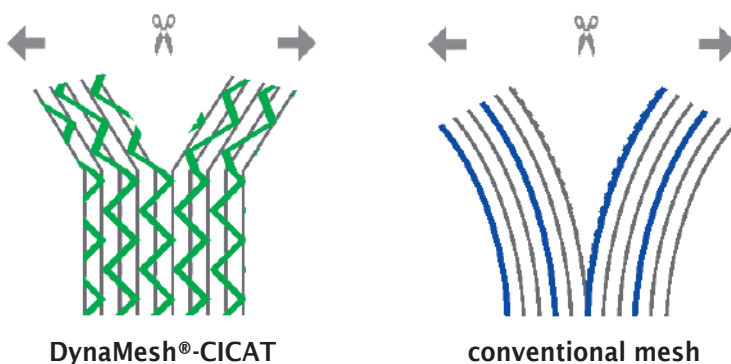
After many years of application in various surgical disciplines the high performance polymer PVDF has proven its worth compared to PP: Enduring high preservation of surface integrity and fibre stability leading to long-term patient safety.

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)

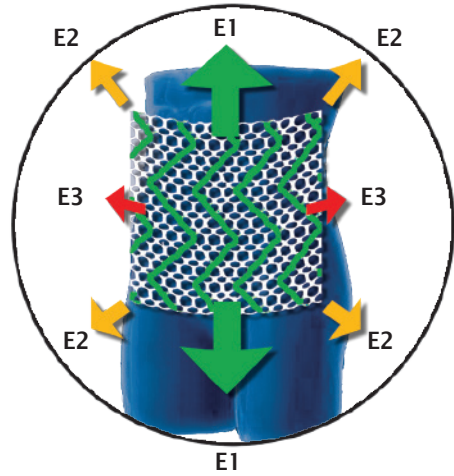
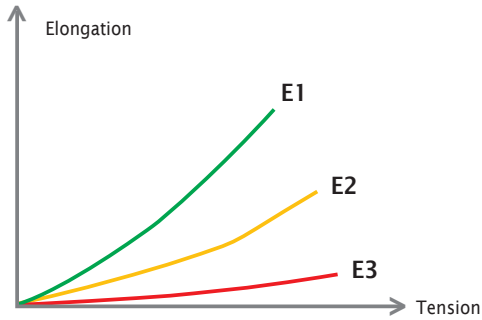
# High Tear Propagation Resistance



DynaMesh®-CICAT is characterized by a novel multiple warp knitted structure. The common zipper effect of conventional meshes will be prevented and thus a mesh rupture avoided.

# Tri-Elasticity

DynaMesh®-CICAT offers greatest possible patient comfort as its tri-elasticity is perfectly adapted to the anatomical and biomechanical characteristics of the human abdominal wall (dynamometry).



# Unique Application

DynaMesh®-CICAT is especially engineered for repair and prophylaxis of incisional hernias. This implant is optimally qualified for all open extraperitoneal techniques.\*

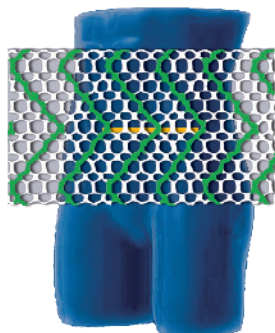
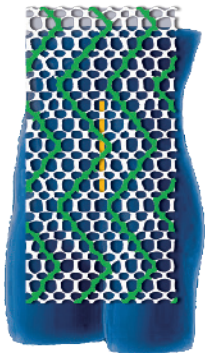
To ensure highest patient comfort and long-term surgical success DynaMesh®-CICAT must be placed in the correct position. For this purpose the staggered green orientation stripes must be adjusted always in cranio-caudal direction.

\* DynaMesh®-CICAT must not be placed intraperitoneally! For this technique, the adequate implant is DynaMesh®-IPOM.

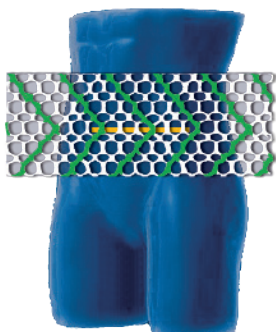
Incisional hernia, longitudinal

Incisional hernia, transversal

Repair



Prophylaxis



The special surface texture (antislip) ensures a stable position of the mesh thus facilitating handling and fixation.

The excellent porosity allows direct contact of the tissue layers through the implant and supports a fast incorporation.

These unique mesh properties result in rapid convalescence and long term safety.

# Technical Data

## DynaMesh®-CICAT

**Material:** 100% PVDF (Polyvinylidene Fluoride) monofilament

**Pore size:** 3 x 3 / 3 x 2 mm

**Effective porosity:** 60 % <sup>1)</sup>

**Maximum stability:** > 32 N/cm

**Maximum tear propagation resistance:** > 26 N

**Classification:** 1a <sup>2)</sup>

<sup>1)</sup> 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)

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

# Delivery Program

## DynaMesh®-CICAT

### Incisional hernia, longitudinal

Size: 15 cm x 25 cm    REF PV091525F2    BX = 2 EA

Size: 20 cm x 30 cm    REF PV092030F2    BX = 2 EA

Size: 30 cm x 45 cm    REF PV093045F1    BX = 1 EA

### Incisional hernia, transversal

Size: 27 cm x 15 cm    REF PV092715F2    BX = 2 EA

Size: 40 cm x 20 cm    REF PV094020F1    BX = 1 EA

### Prophylaxis, longitudinal

Size: 10 cm x 35 cm    REF PV091035F2    BX = 2 EA

### Prophylaxis, transversal

Size: 40 cm x 10 cm    REF PV094010F2    BX = 2 EA

### Umbilical hernia

Size: ø 10 cm    REF PV090010F3    BX = 3 EA

Size: 10 cm x 10 cm    REF PV091010F3    BX = 3 EA

[www.dyna-mesh.com](http://www.dyna-mesh.com)

hergestellt durch / manufactured by /  
fabriqué par / fabricado por /

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