

Aesculap[®] Lyoplant[®] Onlay

Dura Substitution - Fast. Easy. Versatile. Reliable.



Aesculap Neurosurgery

Aesculap dura
substitution -
the next generation

Lyoplant® Onlay

Dura Substitution – Fast. Easy. Versatile. Reliable.

FAST

- Time-saving Onlay application
- Familiar use

EASY

- Convenient handling
- Thin material
- Excellent elasticity and flexibility
- Good adaptability to the defect and surrounding anatomical structures

VERSATILE

- Onlay or suturable application
- Suitable for cranial and spinal cases
- One dura substitute for many indications

RELIABLE

- Excellent biocompatibility
- Liquid-tight closure
- Reduces cortical adhesion
- Integrates with the body's own connective tissue cells
- Good tensile strength
- High suture pull-out strength



Lyoplant® Onlay is a biological, absorbable dura substitution consisting of a bilayer membrane, designed to provide high ease of use.

The product stands out due to the **fast** application, the **easy** handling, the **versatile** usage in terms of fulfilling the surgeons needs and preferences and the **reliable** treatment for the patient.

It allows for a simple Onlay application with the possibility to incorporate suture fixation if necessary.

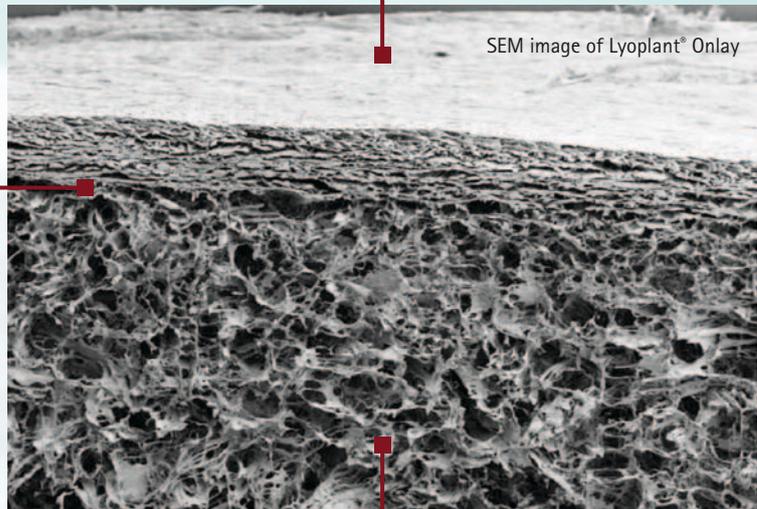
Biological bilayer membrane



The **two layers** are not chemically crosslinked. The close connection between the two layers as well as the production of the materials itself are obtained by a very gentle lyophilisation (freeze-drying) process.

The **first layer** is a highly purified collagen element that is produced from bovine pericardium. It is the same strong and tear-proof material used for our well-established suturable dura substitution Lyoplant®.

Selling more than 500.000 units of Lyoplant® over now many years shows the proven trust in this product.

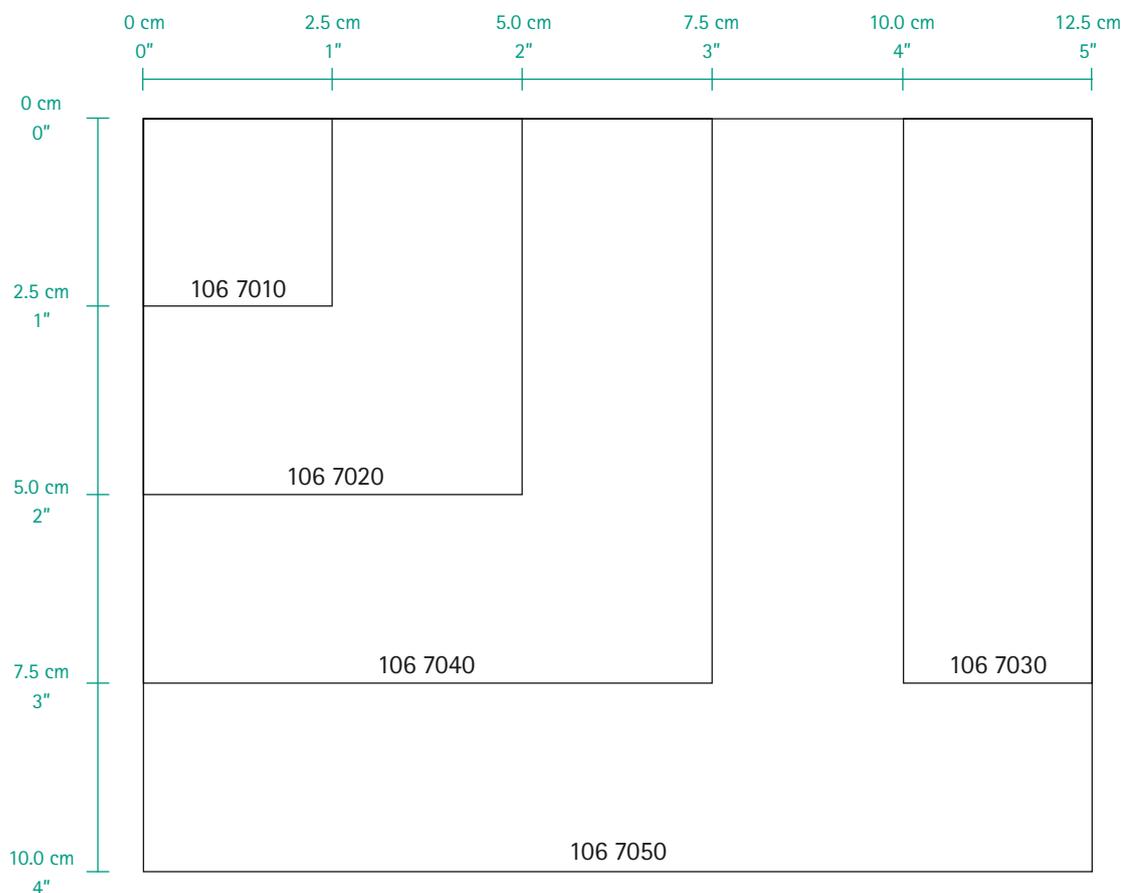


SEM image of Lyoplant® Onlay

The **second layer** is also a highly purified collagen element, made from bovine split hide. The fleece-like spongy quality of this layer allows the implant to adhere to the dura around the defect. Thus, Lyoplant® Onlay can be applied as an Onlay simply by laying the implant on the dura. This possibility of a sutureless closure of the dura defect can save valuable OR time.

Configurations

Sizes		Content	Art. No.
2.5 x 2.5 cm	1" x 1"	1 piece	106 7010
5.0 x 5.0 cm	2" x 2"	1 piece	106 7020
2.5 x 7.5 cm	1" x 3"	1 piece	106 7030
7.5 x 7.5 cm	3" x 3"	1 piece	106 7040
10.0 x 12.5 cm	4" x 5"	1 piece	106 7050



Mode of Application



CUT

- Lyoplant® Onlay can be cut in the required shape and size easily.
- Onlay technique:
The implant should overlap the dura defect by approx. 1 cm to ensure a high level of adhesion and a liquid-tight seal.
- Suturing:
The implant should be cut as closely as possible to the defect size.

REHYDRATE

- Ensure that the fleece-like, porous side (labeled 'DURA SIDE') is facing the dura. Which side has to face the dura should be identified before rehydration.
- Prior to implantation, Lyoplant® Onlay is placed in sterile saline solution or in another isotonic solution to ensure better suppleness and flexibility.

APPLY

- Onlay technique:
The implant simply has to be laid flat against the defect edges, ensuring that it is not taut.
- Suturing:
If required and if considered necessary by the user, Lyoplant® Onlay can be sutured in place. The implant should be fixed with non-absorbable suture material (polyester, polypropylene), using atraumatic round-bodied needles.
- The implant can be sealed with fibrin glue.

