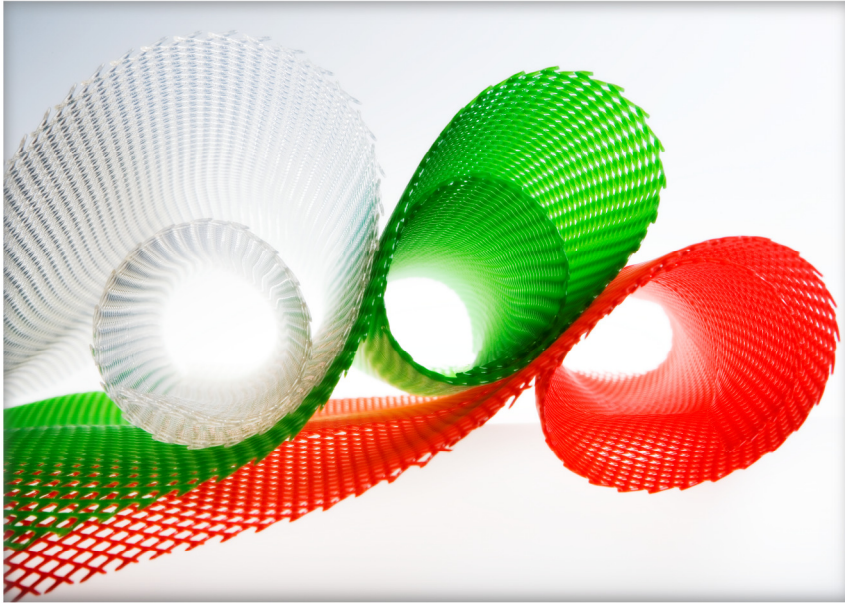


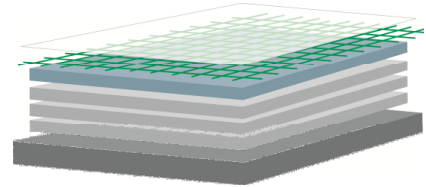


Vacuum Infusion

Plastic nets that allow passage of air and resin



When attaching a form of suction pump, vacuum is created and resin is drawn/infused into the laminate through vacuum pressure.



A plastic net can be used to provide an easy flow conduit between two materials. The structure of the mesh threads allows air and resin to pass through; thereafter the air is sucked out.

EXPO-NET Vacuum Net for Vacuum Infusion

EXPO-NET Danmark A/S is a plastic net manufacturer with more than 50 years' experience. Throughout the years we have developed a variety of nets and meshes manufactured from plastic (PE and PP), for various fields of application.

Included in our product range are a number of products which are utilised within the production of resin infused laminates via the vacuum infusion process. The nets are used as very effective flow media.

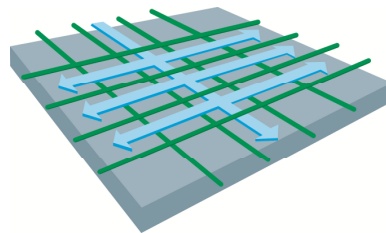
The vacuum infusion process is often applied in the industry when it comes to manufacturing products where high strength and low density are vital requirements.

Sandwich Constructions with Composite Technology

The idea behind applying a plastic net in the process is to

place the net between two airtight materials – called peel ply.

For the actual vacuum infusion process, different types of materials with different properties are used – e.g. Epoxy, Vinyl Ester and Polyester. The specific mesh structure with crossing threads aids the flow of the resin so that the infused resin can spread all over the desired area efficiently.



In order to make the vacuum process work, it is, however, extremely important that the net structure does not shut off any of the feed lines; there must be an air/vacuum outlet in one end, and – by means of vacuum – the resin will be infused in the other end of the laminate.

Vacuum infusion is often used within the following areas:

- Boat building
- Wind power Industry
- Construction
- Concrete Industry
- Auto Industry
- Ski and snowboard production
- Kite and surfboard production

Below is an example of two net types listed which are typically used for vacuum infusion.

We are, however, naturally also able to supply tailor-made products, which are developed in collaboration with our customers.

Technical Specifications:

Type	93	209
Width/length	1.45 / 25m	1.20 / 2 m
Colour	Green	Black
Mesh size	5.5 x 5.5mm	1.8 x 1.8mm
Thread	1.4mm	0.5mm
Material	LDPE	HDPE

