

The innovation for vacuum infusion!!

Cost reduction...

- ... low investment costs,
 - reduced resin consumption!

Safety process...

... visible infusion process, complete impregnation of the fabric!

Optimization of component quality... ... minimize air bubbles and dry spots!



Description

The MTI hose consists of an evacuation hose, non-woven and an air permeable membrane. The sandwich construction leads to optimize the evacuation process and quality. Thus the MTI hose will minimize costs using the vacuum infusion process.

One step for manufacturing high quality products by vacuum infusion while minimize costs compared to other processes producing fibre parts.

The MTI hose can be utilized for any evacuation process where spiral tubes or any other media has been applied so far.

Principle

The MTI hose is placed around the mold lip like an annular piping. The barrier effect of the membrane avoids that resin could enter the evacuation hose. When resin reaches the membrane it will stop there and will flow through the dry rest of the fabric.

Thus cost intense and complex calculations of resin injection points are redundant. By using the MTI hose the complete impregnation of the fabric is guaranteed. The resin allocation can be arranged independently from the MTI hose, so it is possible to manufacture complex fibre parts by vacuum infusion.

The MTI hose can be located directly on the fibre part, e.g. at critical points or fields with material accumulation (thicker layers).

The risk of Dry Spots will be remarkably reduced.

Advantages

- minimize material consumption / few investment cost
- minimize of resin consumption
- less effort for preparing the infusion process
- complete impregnation of the fabric
- visible infusion process
- no resin trap necessary
- resin allocation independent from evacuation hose
- small molding lips
- reduction of Dry Spots
- more process stability for single piece production and small series
- high fibre to volume ratio, adjustable through injected resin volume















