



G-FLOW™



Structural Flow media

G-FLOW 500L is a structural flow media made with 100% glass fibers for infusion process. By its innovative design, it can drain the resin during infusion without adding an external or internal **flow media**. It offers the best compromise between mechanical properties and flow performance.

DESCRIPTION

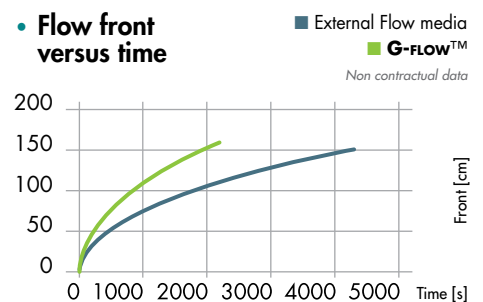
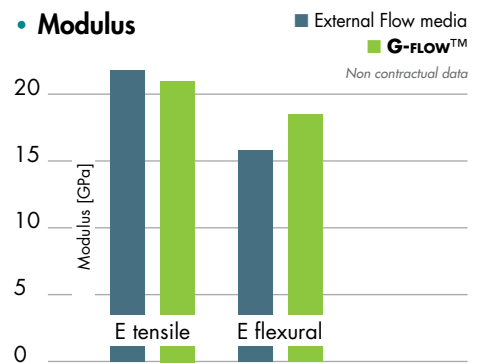
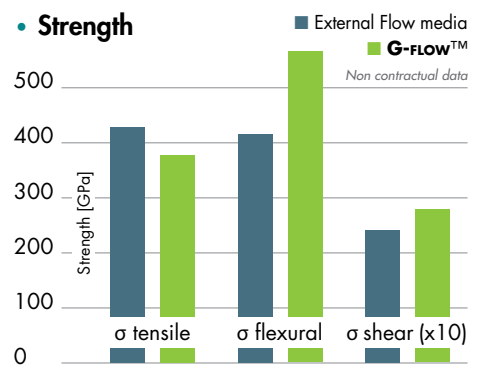
- Glass fiber Reinforcement
- A Specific design and textile geometry
- Warp and weft balanced
- Total weight: 500 gsm

BENEFITS

- **G-FLOW™** provides high mechanicals properties.
- **G-FLOW™** allows faster infusion compare to external flow media. It's position into the structure does not impact really the resin flow.
- **G-FLOW™** is **100 x more permeable** than traditional reinforcements as NCF or Woven Roving.

G-FLOW™, the best solution for your infusion process

- **Same mechanical performances** as standard structure: **G-FLOW™** replaces an external flow media and a structural reinforcement (0/90°)
- **Cost saving** for same mechanicals and permeability performances. Reduce preparation time/Less waste/Less disposal costs



Comparison with 7 layers NCF 0/90 + External flow media versus 6 layers NCF 0/90 + G-Flow in internal position (3500gsm for each laminate)

G-FLOW™

FAQ

- Does **G-FLOW™** allow an isotropic flow ?
 - No, the flow is faster on the 0° direction vs 90°

- Can we use **G-FLOW™** inside a sandwich structure ?
 - Yes, we recommend to put **G-FLOW™** on each side of the core

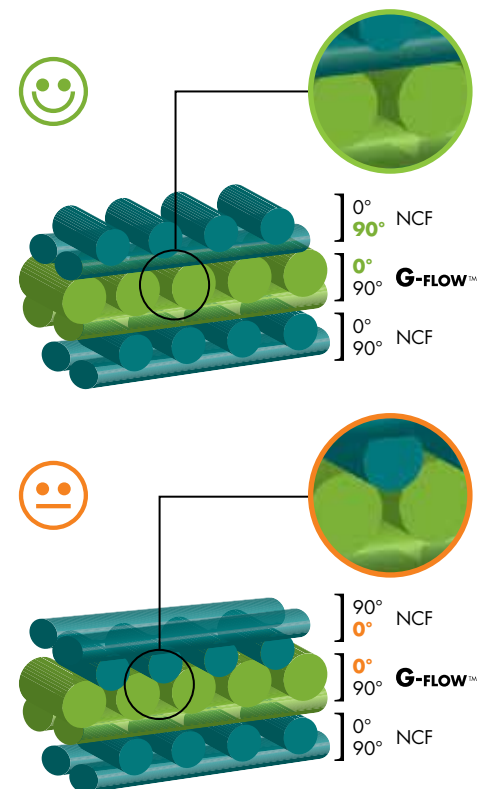
- Can we put **G-FLOW™** against the vacuum bag ?
 - Yes, but we recommend to place **G-FLOW™** on the middle of the laminate
 - For Homogenous flow and better flexural properties
 - For Surface aspect

- Does **G-FLOW™** help the flow for thick structures (60 plies) ?
 - No for the Specific Z Permeability
 - Yes for the in plane Permeability (X,Y)
 - By using several **G-FLOW™** layers, we obtain a more homogenous front of resin (X,Y,Z)

- What is the risk of porosity with **G-FLOW™** ?
 - If the infusion is done correctly the porosity ratio is < 3%
 - To avoid bubble inside the laminate, a perfect control of the infusion parameters is recommended (as for all the internal flow media)

• Position of **G-FLOW™**

For a better resin flow an alternation of 0°/90° is recommended to keep the reinforcement channels



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