



# G-FLOW™



## Structural Flow media

**G-FLOW** is a structural flow media made with 100% glass fibers for infusion and RTM 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

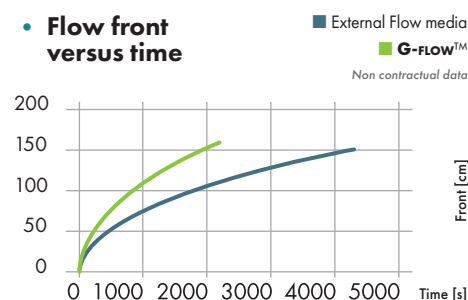
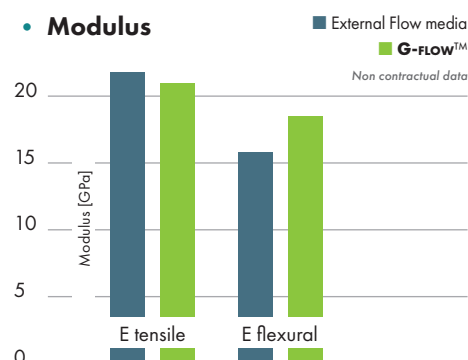
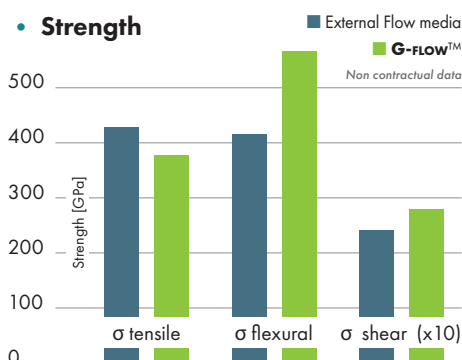
- Glass fiber Reinforcement
- A Specific design and textile geometry
- Warp and weft balanced
- Total weight: 500 gsm

## 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)

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## RANGE

	TOTAL WEIGHT (gsm)	WIDTH (cm)	ROLL LENGHT (lm)
<b>G-FLOW™ 500 L</b>	500	125	100
<b>G-FLOW™ 980 L</b>	982	125	100

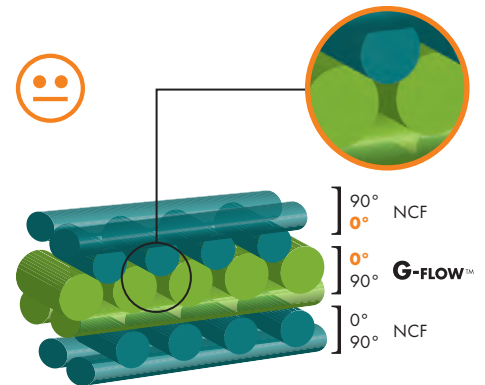
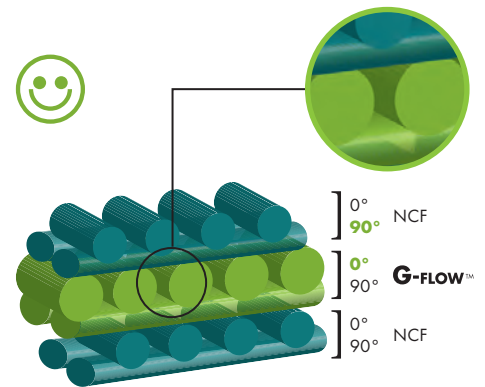
Possibility to stitch with other reinforcements (NCF, Fabrics, mat...)

## 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 vaccum 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



# CHOMARAT

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