

## Structural Flow media

**G-FLOW™** is a **structural flow media** made with 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

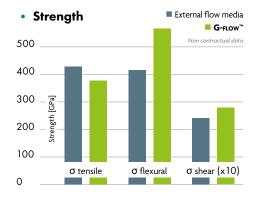
## **BENEFITS**

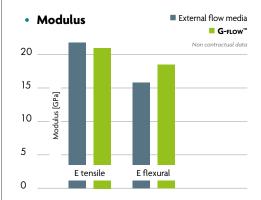
- **→ G-FLOW** provides high mechanicals properties.
- → **G-FLOW**<sup>™</sup> allows faster infusion compare to external flow media. It's position into the structure does not impact really the resin flow.
- → **G-FLOW**<sup>™</sup> 100 time more permeable than traditional reinforcements as NCF or Woven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

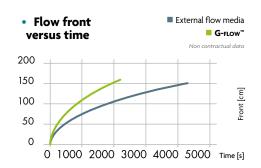
# **G-FLOW™**, the best solution for your infusion process

- > 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)



### **RANGE**

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

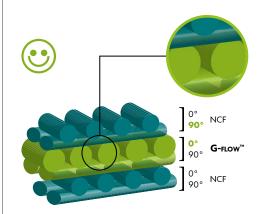
Possibility to stitch with other reinforcements (NCF, Fabrics, mat...)

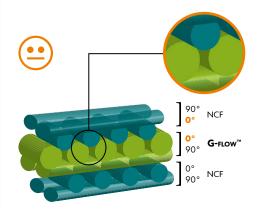
## **FAO**

- → Does **G-FLOW**<sup>™</sup> 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**<sup>™</sup> 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<sup>™</sup>?
  - 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.

#### • Position of G-FLOW™

For a better resin flow an alternation of 0°/90° is recommanded to keep the infusion channels.





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