

G-FLOW™



Structural Flow media

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

DESCRIPTION

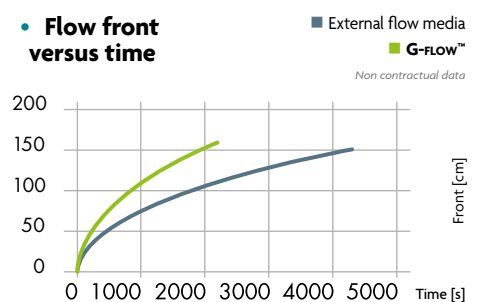
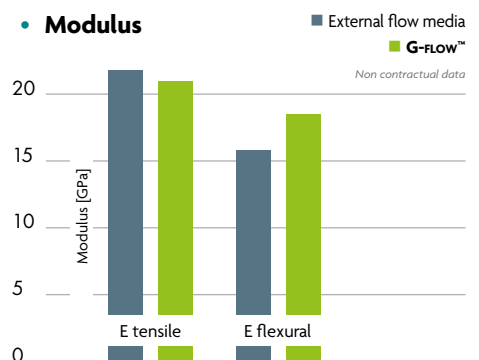
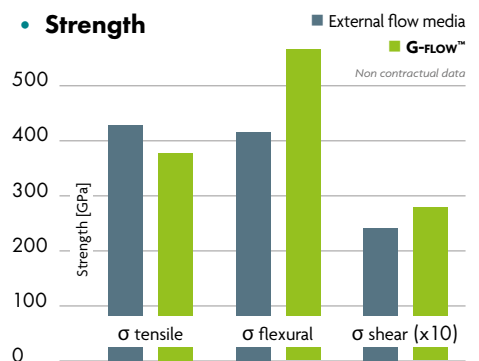
- Glass fiber Reinforcement
- A Specific design and textile geometry
- Warp and weft balanced

BENEFITS

- **G-FLOW™** provides high mechanicals properties.
- **G-FLOW™** allows faster infusion compare to external flow media. It's position into the structure does not impact really the resin flow.
- **G-FLOW™** 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)

G-FLOW™

RANGE

	TOTAL WEIGHT (gsm)	WIDTH (cm)	ROLL LENGTH (lm)
G-FLOW™ 500 L	500	125	100
G-FLOW™ 980 L	982	125	100

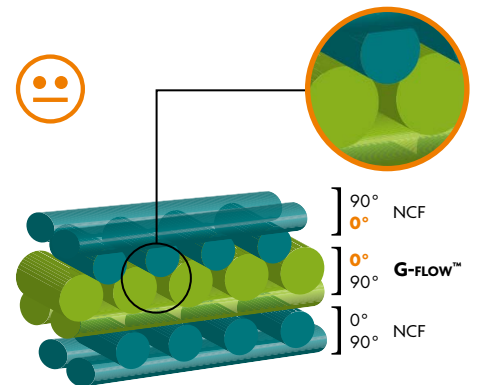
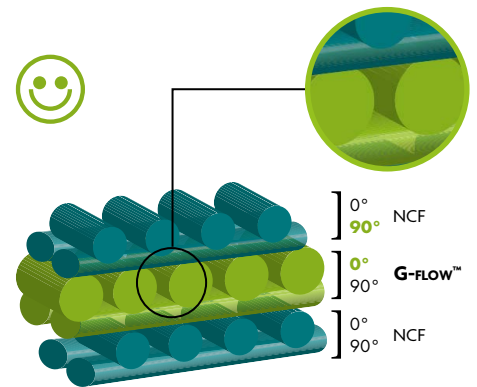
Possibility to stitch with other reinforcements (NCF, Fabrics, mat...)

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 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.

• Position of G-FLOW™

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



CHOMARAT

www.chomarat.com

CHOMARAT Textiles Industries

39 avenue de Chabannes
07160 Le Cheylard
FRANCE

Phone: +33 4 75 29 81 00

CHOMARAT North Africa

ZI de Grombalia
8030 Grombalia
TUNISIA

Phone: +216 722 55 412

CHOMARAT North America

160 Alliance Boulevard
Williamston, SC 29697
USA

Phone: +1 864 328 1700

CHOMARAT Engineered Textiles

36 Quingdao East Road - Taicang
215400, Jiangsu Province
PRC

Phone: +86 512 53737001

Important: All properties are average values given for indication. Values are not intended for use as a specification. Information given in this document is based on the present knowledge of the technical properties of our product. All information is believed to be accurate but is given without acceptance of liability. Users should make their own assessment of the suitability of any product for the purposes required. Information contained in the present document refers to the product specifically indicated and cannot be valid in combination with other products. All sales are subject to our standard terms of sale which include limitations on liability and other important terms.