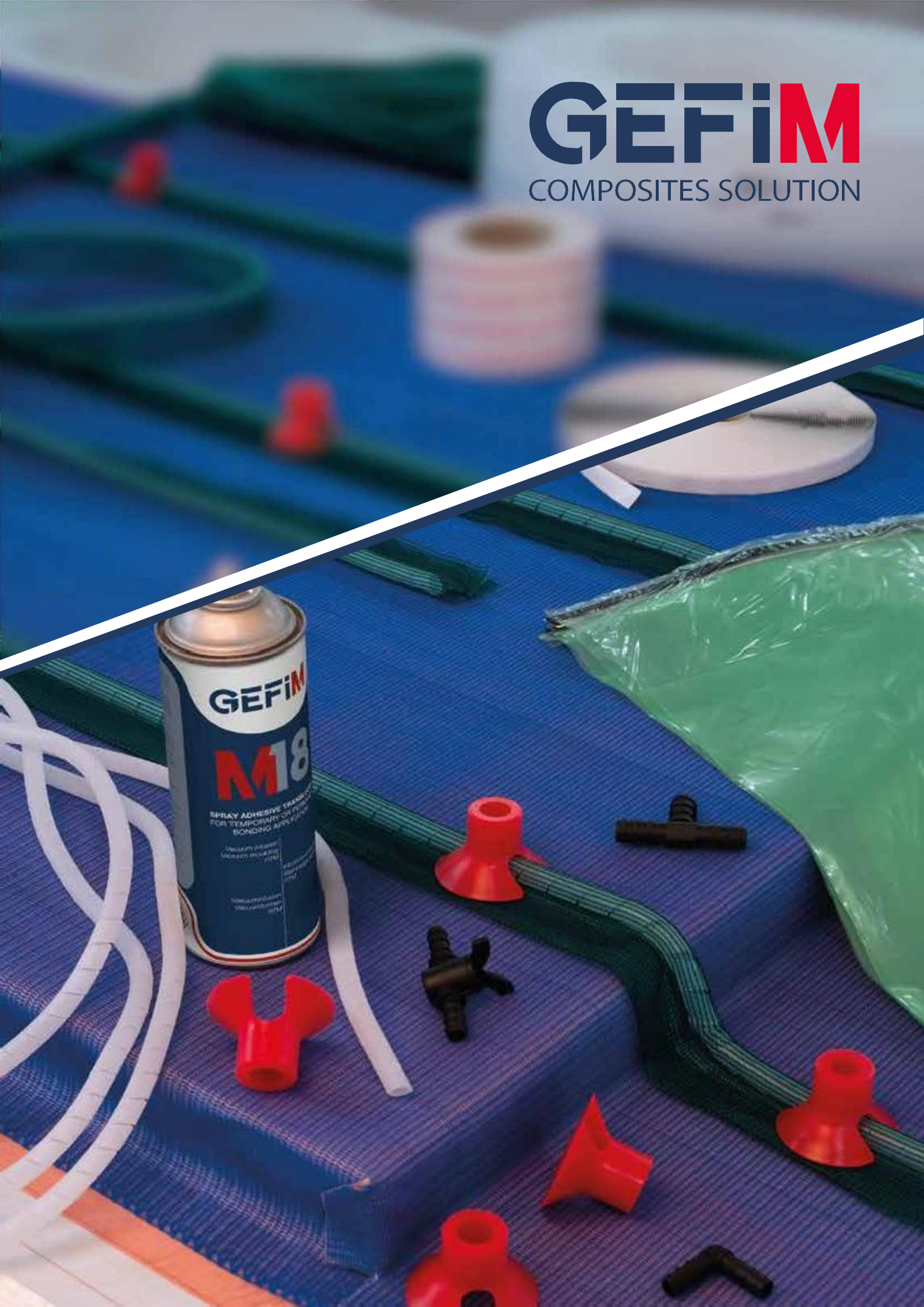
GEFiM
COMPOSITES SOLUTION
GEFiM
M18

GE.FIM srl is a company operating in the composite materials sector. Headquartered in Pesaro, the company has two main production sites: Pesaro and Monterado. Ge.fim represents the passion and entrepreneurial spirit of dynamic and reliable people. The company is personally managed by the owners, supported by sector managers and technicians with a solid professional background and unquestionable reliability. A completely innovative approach to customer service and a constant commitment to continuous improvement have enabled GE.FIM to develop its skills and knowledge and quickly establish itself in the nautical, wind and automotive markets.

With a total covered area of 12,500 sqm between the two sites, GE.FIM has created three main divisions:

- **COMPOSITES DIVISION**
  Composite consumables supply
- **KITTING DIVISION**
  Cutting and processing kits
- **FIBERGLASS AND COMPONENTS DIVISION**
  Supply of large fiberglass models, moulds and components

# COMPOSITE DIVISION

The company manufactures and distributes a wide range of consumables designed to cater for the needs of the composite market as well as the nautical, wind power and automotive sectors, including bagging materials used for vacuum moulding, vacuum infusion and autoclave processes. Customers can request customized items and kits such as, vacuum bagging films, spiral nets, peel ply, resin flow mesh and carbon fibers. The requested items can be cut and packaged in ready-to-use boxes according to customer specifications. GE.FIM takes care of the logistics and distribution side of the business ensu- ring the respect of delivery times thanks to a constant availability of goods in its warehouse



# FIBERGLASS AND COMPONENTS DIVISION

Thanks to recent investments and know-how, GE.FIM is able to support its customers in the design and production of models, moulds and plugs for the composite world, including nautical, wind and automotive.
The headquarters in Pesaro is the main center for direct milling of MDF models and moulds thanks to 3-4-5-axis CNC machines. At the Monterado site, hybrid models of hulls, decks and superstructures up to 40 meters are built in patterns, planking and milled blocks. These are used to make the final fiberglass moulds.
At this site, large doors and a lift height of 9.5m enable the company to produce large fiberglass components using the infusion process. The plant also has a 28m long oven for post curing.

# KITTING DIVISION

Ge.Fim's kitting service offers pre-cut kits made from PVC, Balsa, PU, Polyethylene, Delrin and MDF. The benefits are: optimized fit, reduced resin consumption and improved infusion and prepreg applications. Using a CNC proprietary cut profile for each kit detail, the core is cut part way through its thickness, eliminating the need for a scrim backing, leaving a smooth surface and curvature on the mould side.
The core can also be perforated to allow for resin distribution and airflow. Additional grooves can be added to the core surface to distribute resin without the need for a flow mesh. The result is a kit with excellent formability, reduced resin consumption and an improved surface finish. Our technical office is always available to offer our customers the fullest support for greater efficiency.



GEFiM
COMPOSITES SOLUTION

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GEFiM

COMPOSITES SOLUTION

# VACUUM TECHNOLOGY

# PRODUCT RANGE

# **BAGGING** FILMS

| Item code | Max. temp. | Format | Use with resin | Process | | |
|---|---|---|---|---|---|---|
| | | | | | | |
| **VACUUM BAGGING FILMS** | | | | | | |
| GFM-1VB051-GR | 120°c | Sheet, V Sheet, Tube, Gusseted, Centrally Slit | E \| PE \| VE | ☑ | ☒ | ☒ |
| GFM-1VB001-OR | 180°c | Sheet, V sheet, Tube, Gusseted | E \| PE \| V \| PH | ☑ | ☑ | ☑ |
| GFM-1VB001-BL | 177°c | Sheet, V Sheet, Tube, Gusseted, Centrally Slit | E \| PE \| V \| PH | ☑ | ☑ | ☒ |
| GFM-1VB601-YL | 177°c | Sheet, V Sheet, Tube, Gusseted, Centrally Slit | E \| PE \| V | ☑ | ☑ | ☒ |
| GFM-1VB801-VL | 170°c | Sheet, V Sheet, Centrally Slit | E \| PE \| V \| PH | ☑ | ☑ | ☑ |
| GFM-1VB531-PK | 204°c | Sheet, V Sheet, Tube | E \| PE \| V | ☑ | ☑ | ☑ |
| GFM-1VB341-V | 204°c | Sheet, V Sheet, Tube | E \| PE \| V \| PH | ☑ | ☑ | ☑ |
| GFM-1VB731-OR | 212°c | Sheet, V Sheet, Tube | E \| PE \| V | ☑ | ☑ | ☑ |
| GFM-1VB031-GR | 205°c | Sheet, V Sheet, Tube | E \| PE \| V | ☑ | ☑ | ☑ |
| GFM-1VB031-ORAE | 218°C | Sheet, V Sheet, Tube | E \| PE \| V | ☑ | ☑ | ☑ |
| GFM-1VB131-SB | 230°c | Sheet, V Sheet, Tube | E \| PE \| V | ☑ | ☑ | ☑ |
| **SELF RELEASE VACUUM BAGGING FILMS** | | | | | | |
| GFM-1SR461-GR | 160°c | Tube, Gusseted tube | E \| PH | ☑ | ☑ | ☑ |
| **DEBULKING FILMS** | | | | | | |
| GFM-1R761-GALETS | 158°c | Sheet | E \| PE \| V | DEBULKING | | |
| GFM-1R102-GEMB | 114°c | Sheet | E \| PE \| V | DEBULKING | | |
| GFM-1R051-OR | 114°c | Sheet | E \| PE \| V | DEBULKING | | |
| GFM-1R031-GCI | 200°c | Sheet | E \| PE \| V | DEBULKING | | |
| **COMPACTING FILMS** | | | | | | |
| GFM-1CF102-OR | 114°c | Sheet | E \| PE \| V | COMPACTING | | |
| GFM-1CF102-DG | 114°c | Sheet | E \| PE \| V | COMPACTING | | |
| GFM-1C302-SB | 120°c | Sheet | E \| PE \| V | COMPACTING | | |

## CAPTION


Infusion


Oven


Autoclave


Sheet


V sheet


Tube


Gusseted



Gussetted
Centrally slit

E : Epoxy | PE : Polyester | V : Vinylester | PH : Phenolic

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# BAGGING FILMS

## • LOW TEMPERATURE

### GFM-1VB051-GR





| GREEN | 75 cm - 42 m customizable | 75 µm \| 80 µm | Max. 120°c |
|---|---|---|---|

GFM-1VB051-GR is a puncture resistant co-extruded polyethylene and nylon-based film, designed for the production of polyester / vinyl ester resin infused components for wind energy, marine and general composite industries.




## • MEDIUM TEMPERATURE

### GFM-1VB001-OR



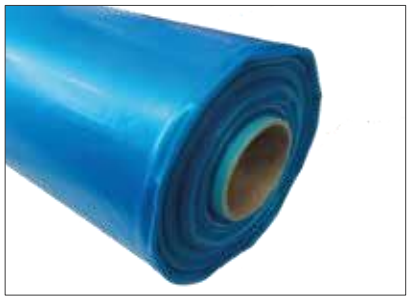


| ORANGE | 86 - 3500 mm tube or V Sheet 2400 - 6000 mm gusseted. | 50 µm \| 65 µm 75 µm | Max. 180°c |
|---|---|---|---|

GFM-1VB001-OR is a highly flexible orange multilayer nylon vacuum bagging film suitable for advanced composite curing processing and laminated security glass. GFM-1VB001-OR is suitable for phenolic contact.



### GFM-1VB001-BL





| BLUE | 2 \| 3 \| 4 \| 6 \| 8 \| 10 \| 12 m | 50 µm \| 65 µm 70 µm \| 75 µm | Max. 177°c |
|---|---|---|---|

GFM-1VB001-BL is a tough, high temperature resistant blue colored co-extruded nylon- based vacuum bagging film, designed for use in the production of advanced composite structures for instance in wind energy and marine industry. GFM-1VB001-BL thanks to it's own structure, works very well in infusion process when exothermic reactions can appear

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# **BAGGING** FILMS

## GFM-1VB601-YL

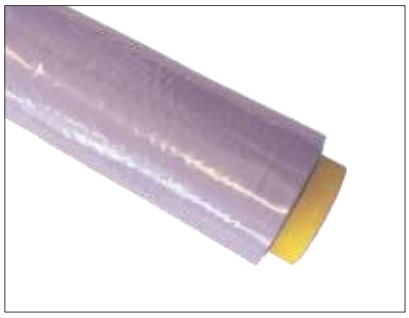


YELLOW | Up to 8.5 m | 50µ | 65µ | 75µ | Max. 177°c

GFM-1VB601-YL vacuum bagging film is a tough, high temperature resistant co-extruded nylon-based material designed for use in the production of advanced composite structures such as wind turbine blades and nacells, boat hulls and decks, plus other industrial structures.




## GFM-1VB801-VL



VIOLET | Up to 6 m | 50µ | Max. 170°c

GFM-1VB801-VL is a light-violet colored highly flexible multilayer nylon vacuum bagging film, designed for processing of advanced composite structures and laminated security glass. The film is ideal for use in both oven and autoclave cures, up to a maximum recommended temperature of 170°C and a maximum recommended pressure of 8 bars. Key benefits of this film are its high elongation and flexibility.




# • **HIGH** TEMPERATURE

## GFM-1VB531-PK



PINK | up to 2000 mm tubolar
2000 - 4000 mm V-sheet | 50 µm | Max. 204°c

GFM-1VB531-PK is a soft and flexible mononylon vacuum bagging film suitable for oven and autoclave cure temperatures up to 204 °C.



# **BAGGING** FILMS

## GFM-1VB341-V



VIOLET

Up to 3500 mm Tube
7000 mm V-Sheet

50 µm

Max. 204°c

GFM-1VB341-V is a violet colored coextruded mononylon vacuum bagging film, engineered to enhance softness at a maximum level.



## GFM-1VB731-OR



ORANGE

Up to 2000 mm Tube
2000 - 4000 mm V-Sheet

50µ | 75µ

Max. 212°c

GFM-1VB731-OR is a sturdy yet soft multilayer coextruded mono nylon vacuum bagging film, able to withstand high pressure and temperature autoclave cures up to 212°C. GFM-1VB731-OR film is recommended for applications where the attributes of higher softness, high elongation and durability are required, therefore the film can be used in autoclave, oven and resin infusion applications with poyester, vinyl ester and epoxy resin systems (the product is not suitable for use with phenolic resin).



## GFM-1VB031-GR



GREEN

Up to 3000 mm tube
3000/6000 mm V sheet

50 µm | 75 µm

Max. 205°c

GFM-1VB031-GR is a flexible, high strength mononylon vacuum bagging film in green color suitable for oven and autoclave cure temperatures up to 205°C.

NEW!

Available in 25mm, 50mm, 75 mm layflat tube.



# **BAGGING** FILMS

## GFM-1VB031-ORAE



| ORANGE | 1500 mm Tube | 75 µm | 218°c |
|---|---|---|---|

GFM-1VB031-ORAE is an orange coloured, flexible and high strength coextruded polyamide vacuum bagging film, developed for oven and autoclave high temperature curing process in the aerospace industry. This film is not suitable to be used with Phenolic resins.



## GFM-1VB131-SB



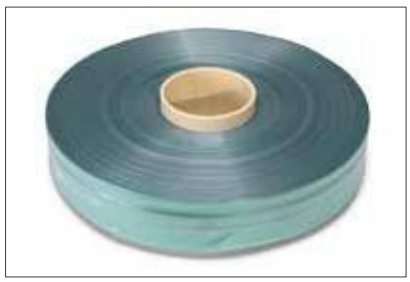
| SKY BLUE | Up to 1525mm sheet, tube or 3050mm V-Sheet | 50µ \| 75µ | 230°c |
|---|---|---|---|

GFM-1VB131-SB is a sturdy, high temperature resistant coextruded nylon film, designed for use in production of advanced composite structures in composite aerospace industry.
The film is suitable for use with the most common resins including bismaleimides.



# • **SELF RELEASE** BAGGING FILMS

## GFM-1SR461-GR



| GREEN | 50 - 800 mm tube | 50µ \| 70µ \| 100µ | 160°c |
|---|---|---|---|

GFM-1SR461-GR is a self-releasing multilayer nylon/polyolefin vacuum bagging film designed for processing hollow advanced composite structures where easy removal of the bag following the cure is desirable to as to avoid damage to the component.

**NEW!** Available in easy to fit gusseted tube.



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# • **DEBULKING** FILMS

## GFM-1R761-GALETS



PINK | 1500 mm sheet width | 50 µm | Max. 158°c

GFM-1R761-GALETS is a pink colored release film designed for resin infusion and prepreg application. The film is compatible with all commonly used resin systems. The film is embossed and features a “galets” pattern, to speed up the air extraction in debulking operations.



## GFM-1R102-GEMB



LIGHT GREEN | Up to 1800 mm | 80 µ | Max. 114°c

GFM-R102-GEMB is a light green colored diamond-pattern embossed coextruded LDPE release film to be used with prepreg materials. Suitable to protect prepregs layups and to separate prepreg layers on the ply cutter when kitting. The modified surface structure speeds up the air extraction during debulking operation.



## GFM-1R051-OR



ORANGE | Up to 6000 mm | 60 µ | Max. 114°c

GFM-1R051-OR is an orange polyolefin-based barrier film, developed for debulking applications in the composite industry, featuring good mechanical and release properties. The product is not intended for infusion or autoclave use.



### GFM-1R031-GCI



GREEN | Up to 6000 mm | 60 µ | Max. 114°c

GFM-1R031-GCI is a flexible and high strength coextruded mononylon vacuum bagging film, for oven and autoclave curing process up to 200°C, with “cracked ice” embossing pattern to facilitate resin / air flow during process.

## • PLAIN COMPACTING FILMS

### GFM-1CF102-OR



ORANGE | Up to 1450 mm | 70µ | Min. -18°c

GFM-1CF102-OR is an orange colored Coextruded LDPE film to be used as release from pre-pregs set ups. Product is available in other colors upon order.

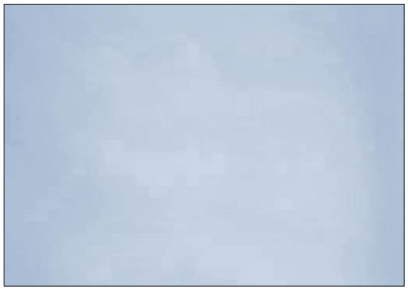
### GFM-1CF102-DG



DARK GREEN | 1080 mm | 1150 mm 1350 | 1450 mm | 80 µm | Min. -18°c

GFM-1CF102-DG is a Coextruded LDPE film to be used as release from pre-pregs setups. Product is available in other colors upon order.

## GFM-1C302-SB



SKY BLUE

Up to 2000 mm

100 µm

Max. 120°c

GFM-1C302-SB is a Coextruded Polyethylene sky blue film developed as support for textile fibers compaction processes.



# **RELEASE** FILMS

| Item code | Max. temp. | Perforations | Use with resin |
|---|---|---|---|
| GFM-1R002-OR | 127°c | P3 \| P16 \| P31 \| NP | E \| PE \| V |
| GFM-1R302-SB | 127°c | P3 \| P16 \| P31 \| NP | E \| PE \| V |
| GFM-1R212-YL | 150°c | P3 \| P6 \| P16 \| P31 \| NP | E \| PE \| V |
| GFM-1R761-PK | 158°c | P3 \| NP | E \| PE \| V |
| GFM-1R006PMP-RD | 200°c | P3 \| P6 \| NP | E \| PE \| V |
| GFM-1R009FEP-RD | 260°c | P3 \| P6 \| NP | E \| PE \| PH |
| GFM-1R109ETFE-BL | 230°c | P3 \| P6 \| NP | E \| PE \| V |

## • **PERFORATIONS** SPECIFICATIONS

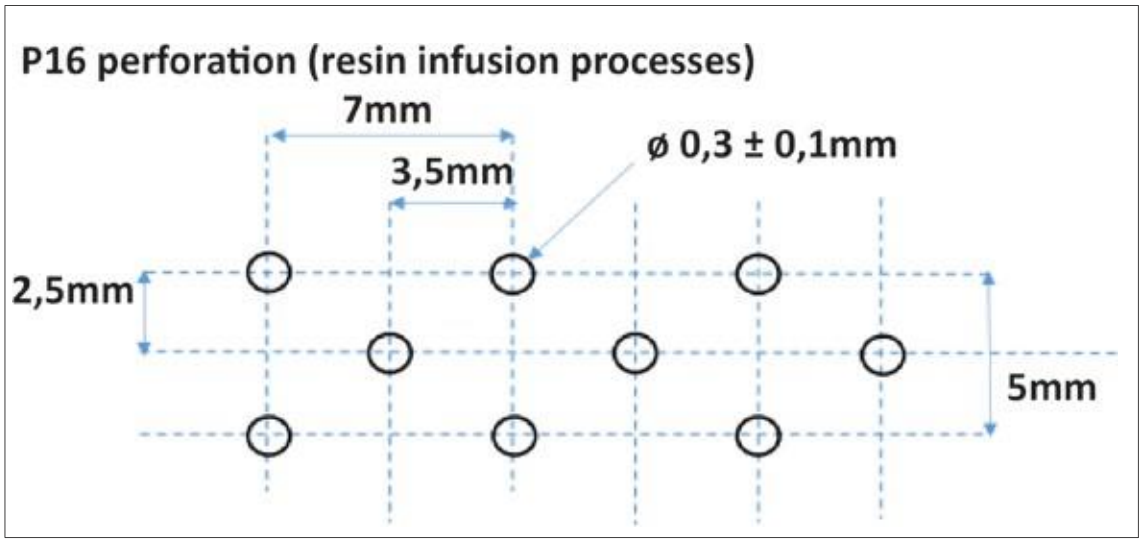
| Process | NP | P3 | P6 | P16 | P31 |
|---|---|---|---|---|---|
|  | | | | ● | ● |
|  | ● | ● | ● | | |
|  | ● | ● | ● | | |

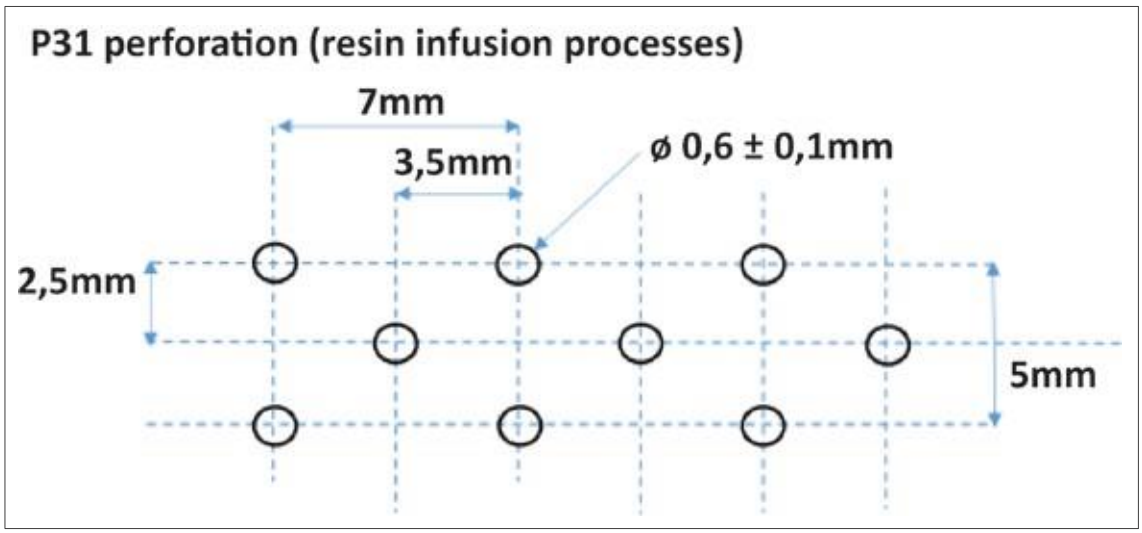
### CAPTION

 Infusion  Oven  Autoclave

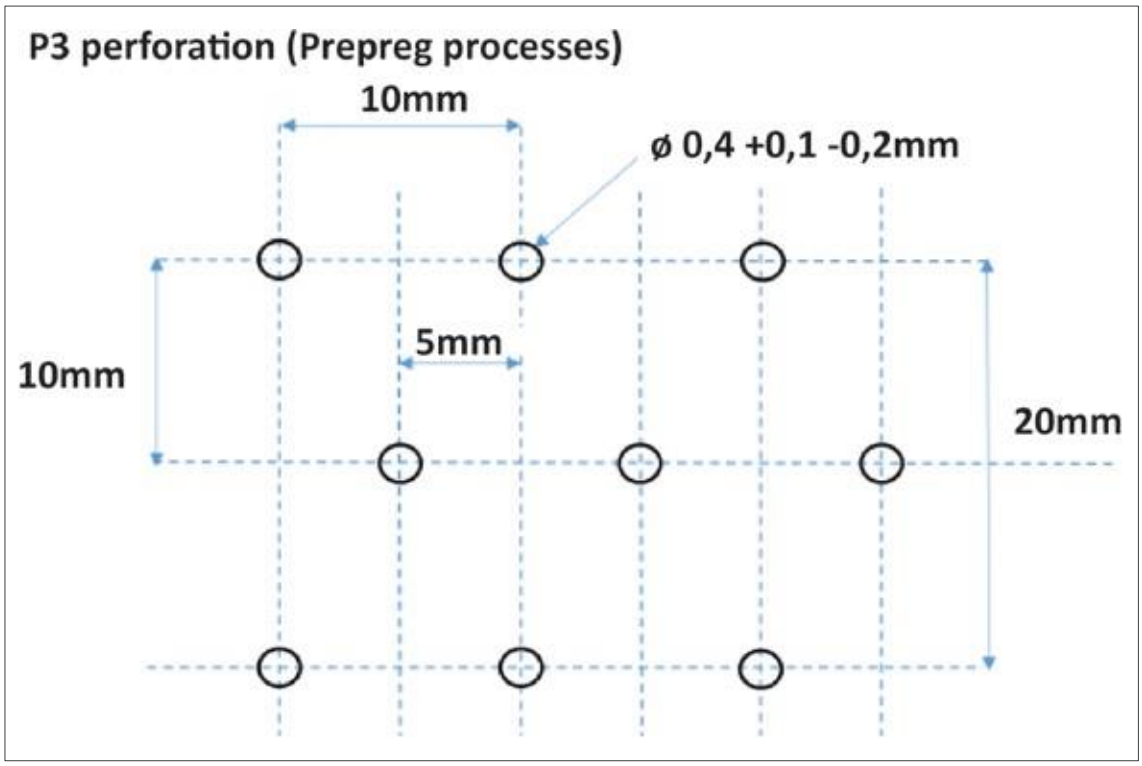
E : Epoxy | PE : Polyester | V : Vinylester | PH : Phenolic

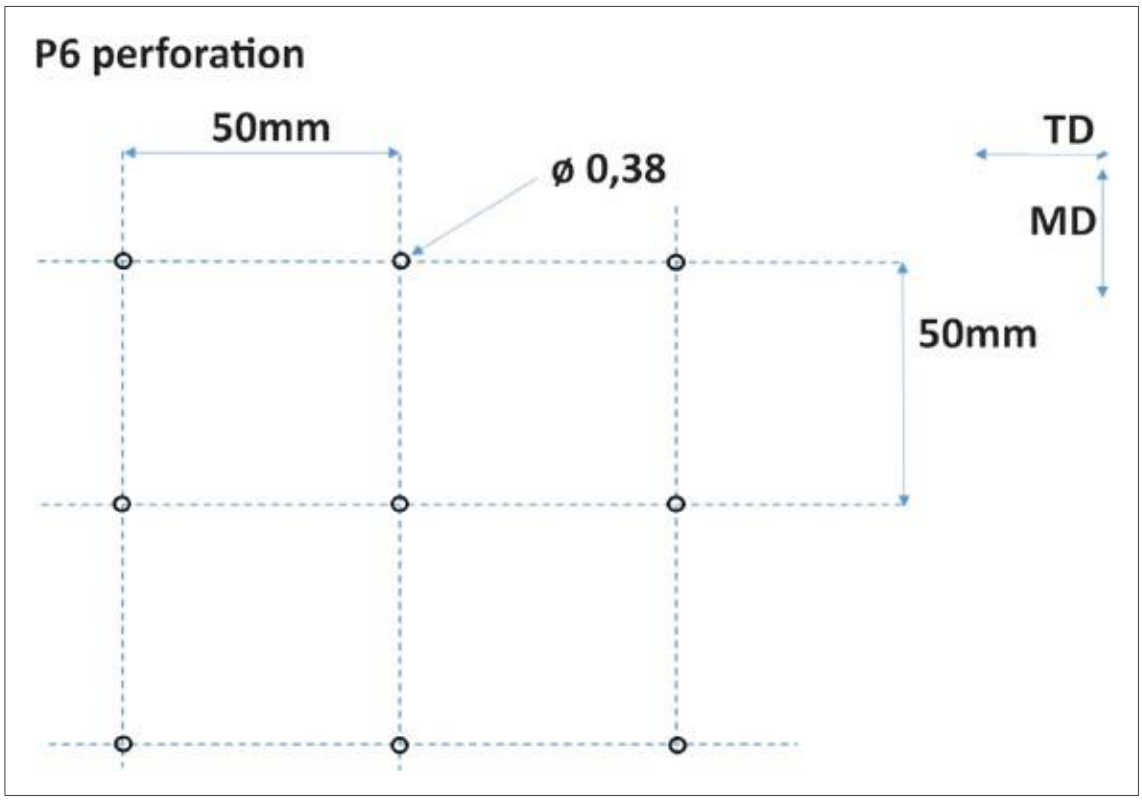
## • **RESIN INFUSION PROCESS** PERFORATIONS



## • **OVEN AND AUTOCLAVE PROCESS** PERFORATION



# • **LOW** TEMPERATURE

## GFM-1R002-OR



| | | | | | |
|---|---|---|---|---|---|
| ORANGE | P3<br>P16<br>P31<br>NP | 1450 mm | 500 m | 25 µm | Max. 127°c |

GFM-1R002-OR is obtained through hot needle perforation process and used in vacuum infusion process. Good stiffness and high tensile strength.

## GFM-1R302-SB



| | | | | | |
|---|---|---|---|---|---|
| SKY BLUE | P3<br>P16<br>P31<br>NP | 1500 mm | 250 m | 28 µm | Max. 127°c |

GFM-1R302-SB is obtained through hot needle perforation process and used in vacuum infusion process. Enhanced mechanical properties and high tensile strength.

# • **MEDIUM** TEMPERATURE

## GFM-1R761-PK



| | | | | | |
|---|---|---|---|---|---|
| PINK | P3<br>P6<br>P31<br>P16<br>NP | 1500 mm | 250 m | 30 µm \| 50 µm<br>75 µm | Max. 158°c |

GFM-1R761-PK is a pink release film suitable for both resin infusion and prepreg processing. This product is compatible with all commonly used resin systems.
In the non-perforated version can work as self-releasing vacuum bagging film in debulking operations.

# **RELEASE** FILMS

## GFM-1R212-YL



| | | | | | |
|---|---|---|---|---|---|
| YELLOW | P3<br>P31<br>P16<br>P6<br>NP | 1500 mm | 250 m | 30 µm \| 45 µm<br>50 µm | Max. 150°c |

GFM-1R212-YL is a medium temperature, highly flexible release film, suitable for use with epoxy pre-preg up to 150°C as well as in resin infusion applications with a wide range of resin systems.

# • **HIGH** TEMPERATURE

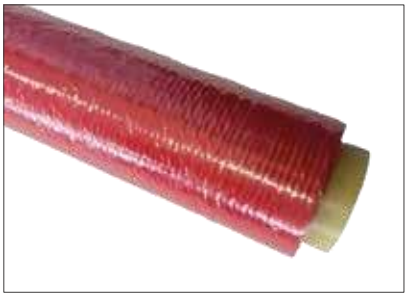
## GFM-1R006PMP-PK



| | | | | | |
|---|---|---|---|---|---|
| PINK | P3<br>P6<br>NP | 1500 mm | 250 \| 500 m | 30 µm | Max. 200°c |

GFM-1R006PMP-PK is a polymethyl pentene (PMP) release film suitable for processing advanced composite components in autoclave. It features extremely good release properties and is ideal for use on a flat or single curvature moludings.

## GFM-1R009FEP-RD



| | | | | | |
|---|---|---|---|---|---|
| RED | P3<br>P6<br>NP | 1220 mm<br>1530 mm | 305 m<br>153 m | 13 µm \| 20 µm<br>25 µm | Max. 260°c |

GFM-1R009FEP-RD is a high temperature FEP release film suitable for processing advanced composite components in autoclave. This film is compatible with all prepreg systems (including epoxy, polyester, BMI and phenolic), due to its high thermal stability. GFM-1R009FEP-RE guarantees a smooth finish.

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## GFM-1R109ETFE-BL



| | | | | | |
|---|---|---|---|---|---|
| BLUE | P3<br>P6<br>NP | 1530 mm | 153 m | 15 µm \| 20 µm<br>25 µm | Max. 230°c |

GFM-1R109ETFE-BL is the standard film for high temperature curing of advanced composite structures. Its high strength and toughness, coupled with excellent release properties make it ideal for use with all commonly used resin systems in both oven and autoclave cures.

# **MASKING** FILMS

## GFM-1MF002-CL10VS4000-150



| CLEAR TRANSPARENT | 4000 mm | 150 m | 10 µm | Max. 125°c |
|---|---|---|---|---|

GFM-1MF002-CL10VS4000-150 is a premium transparent masking film designed for vehicle and marine bodywork painting and reworking applications.



## GFM-1MF831-CL18GS1700-100



| CLEAR TRANSPARENT | 1700 mm | 100 m | 30 µm | Max. 180°c |
|---|---|---|---|---|

GFM-1MF831-CL18GS1700-100 is a coextruded transparent film, developed for high temperature masking film application.



## GFM-1MF302-GR17VS2000-100



| GREEN | 2000 mm | 100 m | 17 µm | Max. 130°c |
|---|---|---|---|---|

GFM-1M302-GR17VS2000-100 is a green coextruded film developed for masking film applications. The film is corona treated and paint absorbing on one side.



# **THERMOSHRINKING** FILMS

## GFM-1SF052-W



| WHITE | 6 - 12 m | customizable | 200 \| 250 300µm | Max. 80°c |
|---|---|---|---|---|

GFM-1SF052-W is a white colored high puncture resistance LDPE thermoshrinking UV resistant cover film designed for a wide range of applications such as protection of boats and other equipment during transport. The film is UV resistant al least 12 months in Central Europe weather conditions. This product is a coextrution of virgin raw material (no recycled material used).




## GFM-1SFTAPE-72X33-W

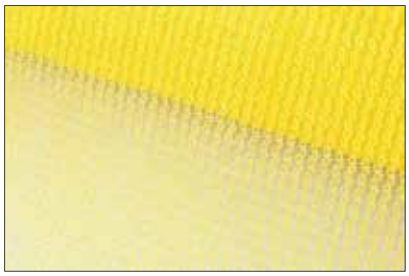


| WHITE | 72 mm | 33 m | 230 µm | Max. 80°c |
|---|---|---|---|---|

GFM-1SFTAPE-72X33-W is a white colored heavy duty polyethylene tape, single coated with a synthetic rubber pressure sensitive adhesive.
Suitable for repairs, masking, building and splicing applications also in agricultural or marine sectors due to its UV resistance, good conformability to irregular surfaces and water-tight sealing properties.
Apply on clean, dry and degreased surfaces at temperatures over 18°C for best results.

# RESIN FLOW **MESH**

## GFM-1IM-YL115



LOW FLOW

| | | | | |
|---|---|---|---|---|
| YELLOW | 115 gr/m² | 1500 mm | 100 m customizable | 120°c |

GFM-1IM-YL115 is recommended for vacuum infusion technology and similar processes. It is compatible with all types of resin and its high level of drapability makes it suitable for use even on complex surfaces.

## GFM-1IM-BL140



MEDIUM FLOW

| | | | | |
|---|---|---|---|---|
| BLUE | 140 gr/m² | 1500 mm customizable | 100 m customizable | 120°c |

GFM-1IM-BL140 is a medium flow knitted mesh used for resin infusion and similar processes. Compatible with all types of resin, it's high drapability makes it suitable for use even on complex surfaces.

## GFM-1IM-YL180



HIGH FLOW

| | | | | |
|---|---|---|---|---|
| YELLOW | 180 gr/m² | 1500 mm | 100 m customizable | 130°c |

GFM-1IM-YL180 is a dense knitted mesh designed for vacuum infusion technology and similar processes. it is compatible with all types of resin, run resistant and appreciated for its high flow capacity.

# RESIN FLOW **MESH**

## GFM-1EXM



**HIGH FLOW**

GREEN OR WHITE

Up to 415 gr/m²

Up to 1 m

100 m customizable

120°c

GFM-1EXM is an extruded mesh green or translucent and helps to efficiently distribute resin and reduce wasting resin during the process. This mesh can be used with polyester, vinyl ester and epoxy resins. Resins flows more easily throughout lay-up.

## GFM-1EXM-LDPE



**HIGH FLOW**

YELLOW

Up to 365 gr/m²

Up to 0,8 m

50 m

120°c

GFM-1EXM-LDPE is an extruded yellow LDPE mesh designed to help distribute efficiently the resin during an infusion process and reduce the amount of resin necessary. Can be used with polyester, vinyl ester and epoxy resin.

# COMBI-**MESH**

## TWO-IN-ONE



### GFM-1DMP31-YL160

| | | | | |
|---|---|---|---|---|
| YELLOW AND RED | 160 gr/m² | 1450 mm | 100 m customizable | 120°c |

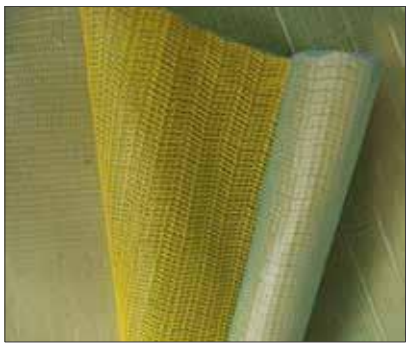
**LOW FLOW**



### GFM-1DMP31-BL190

| | | | | |
|---|---|---|---|---|
| BLUE AND RED | 190 gr/m² | 1450 mm | 100 m customizable | 120°c |

**MEDIUM FLOW**



### GFM-1DMP31-YL230

| | | | | |
|---|---|---|---|---|
| YELLOW AND SKY BLUE | 230 gr/m² | 1450 mm | 100 m customizable | 120°c |

**HIGH FLOW**

Our two-in-one combo provides highly comfortable resin distribution and persistent air evacuation during vacuum assisted resin infusion processes, thanks to the special knitted pattern of the HDPE net and the P31 perforation of the HDPE film. Its inherent flexibility makes it perfect for use in complex designed moulds.

GEFiM

# COMBI-**MESH**

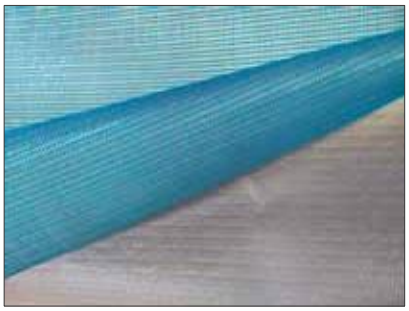
## HEAT SEALED COMBI MESH



### GFM-1DMP31-YL140

| | | | | |
|---|---|---|---|---|
| YELLOW AND RED | 140 gr/m² | 1450 mm - 2000 mm | 100 m customizable | 120°c |

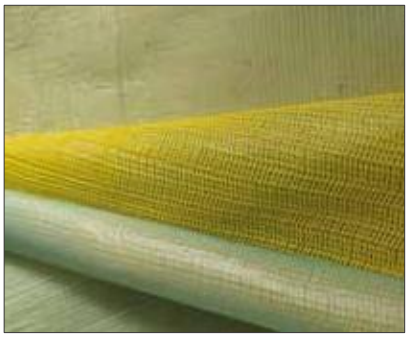
**LOW FLOW**



### GFM-1DMP31-BL170

| | | | | |
|---|---|---|---|---|
| BLUE AND ORANGE | 170 gr/m² | 1450 mm - 2000 mm | 100 m customizable | 120°c |

**MEDIUM FLOW**



### GFM-1DMP31-YL210

| | | | | |
|---|---|---|---|---|
| YELLOW AND SKY BLUE | 210 gr/m² | 1450 mm - 2000 mm | 100 m customizable | 120°c |

**HIGH FLOW**

---

Our two-in-one combo Heat-Sealed is a soft and conformable resin distribution media designed to facilitate the resin infusion process. The HDPE net and heat-sealed release film P31, guarantee a superior softness to the media allowing it to fit to even the most complex shapes. Our combo Heat-Sealed can be supplied in rolls up to 2000mm wide.

GEFIM

# **THREE**-IN-ONE



**LOW FLOW**

## GFM-1TRBL-295PP1520-100

| | | | | |
|---|---|---|---|---|
| WHITE BLUE AND RED | 295 gr/m² | 1520 mm | 100 m customizable | 120°c |

Our three-in-one combo provides highly conformable resin distribution and persistant air evacuation during vacuum assisted resin infusion processes, thanks to the special knitted pattern of the HDPE net the P31perforation of the HDPE film and peel ply. Its inherent flexibility makes it perfect for use in complex designed moulds.



**HIGH FLOW**

## GFM-1TRBL-295PP1520-100

| | | | | |
|---|---|---|---|---|
| WHITE SKY BLUE AND YELLOW | 310 gr/m² | 1520 mm | 100 m customizable | 120°c |

GFM-1TRYL-310PP1520-100 is a highly conformable resin distribution mesh that guarantees persistent air evacuation during vacuum assisted resin infusion processes, thanks to the special pattern of the HDPE monofilament yarn the P31 perforation of the HDPE film and peel ply. Its inherent flexibility makes it perfect for use in complex design moulds.

# BLEEDER AND COMBI-BLEEDER

## GFM-1BLD-W



| | g/m² | | | Max. |
|---|---|---|---|---|
| WHITE | 100 gr/m²<br>120 gr/m²<br>150 gr/m²<br>230 gr/m²<br>300 gr/m²<br>400 gr/m² | 1500 mm<br>1500 mm<br>1500 mm<br>1500 mm<br>1500 mm<br>1500 mm | 100 m<br>100 m<br>100 m<br>50 m<br>50 m<br>50 m | 200°c<br>200°c<br>200°c<br>200°c<br>200°c<br>200°c |

GFM-1BLD-W is a 100% polyester bleeder of the highest quality able to adapt to the most complex laminate shapes. Thanks to its excellent ventilation, the bleeder can withstand vacuum and autoclave pressure processing.

## GFM-1VACUTECH



| | g/m² | | | | Max. |
|---|---|---|---|---|---|
| ORANGE AND WHITE | customizable | 25 µm | 1500 mm | 50 \| 100 m | 120°c |
| SKY BLUE AND WHITE | customizable | 28 µm | 1500 mm | 50 \| 100 m | 127°c |
| YELLOW AND WHITE | customizable | 30 µm | 1500 mm | 50 \| 100 m | 150°c |

Our multi-layer system is designed for processing composite materials as pre pe-gs, wet lay-ups. Among the benefits are: less wasting time, better composite quali-ty and one item to purchase and stock instead of three. Several versions available.

# CORE-MATERIALS

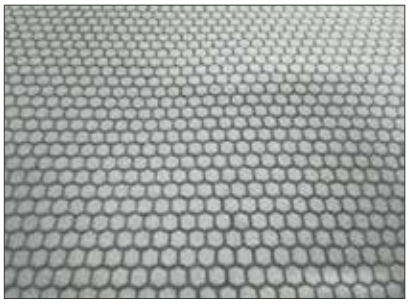
## GFM-1GCORE



| | | | | |
|---|---|---|---|---|
| LILAC | 55 gr/m²<br>80 gr/m²<br>105 gr/m²<br>125 gr/m² | 2 mm<br>3 mm<br>4 mm<br>5 mm | 1000 mm<br>1000 mm<br>1000 mm<br>1000 mm | 80 m<br>50 m<br>40 m<br>30 m |

Ge.Fim G-CORE is a non-woven core material made of foamed micro hollow pearls and asserted with short fibers. After impregnation with polyester resin the nonwoven becomes smooth and formable. Suitable as a core layer in glass fibre-polyester-laminates. The G-Core optimizes resin absorption with good tensile strength when wet.

## GFM-1SCORE



| | | | |
|---|---|---|---|
| WHITE | 2 mm<br>3 mm | 1000 mm<br>1000 mm | 80 m<br>50 m |

GFM-1SCORE is used both as a core material and infusion medium in closed mould processes, including infusion RTM. This interlaminar flow medium is a pressure stable polyester nonwoven, compatible with all regular types of resins, including Polyester, Vinyl ester, Phenolic and Epoxy.

# PEEL PLY

## GFM-1PA6G68



GREEN

68 gr/m²

75 - 150 mm

100 m
customizable

Max.
150°c

Green nylon fiber-based fabric designed to eliminate excess resin from the laminate, thus improving its mechanical values, as well as preparing the internal surface of the product and avoiding the preparatory phase of sanding.

## GFM-1PA6WR85



WHITE
AND
RED

85 gr/m²

30 - 1520 mm

100 | 200
300 | 400 m

Max.
180°c

This type of nylon fiber-based fabric is able to eliminate excess resin from the laminate, thus improving its mechanical values, as well as prepare the internal surface of the product making it ready to be relayered or glued, avoiding the preparatory phase of sanding. The red tracer makes it visible for easy removal.

## GFM-1TW2/2WR105-100X100



WHITE
AND
RED

105 gr/m²

100 m

1000 mm

Max.
204°c

High tenacy nylon peel ply, this fabric leaves a rough surface impression for priming and secondary bonding, twill construction allows very good elongation of the fabric to ensure an easier drapability. The tracer lines make it visible for easy removal.

# PEEL PLY

## GFM-1PA6-ADH85



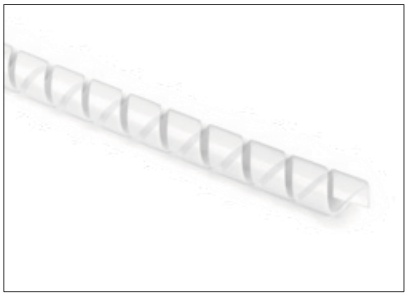

| | | | | |
|---|---|---|---|---|
| WHITE AND RED | 123 gr/m² customizable | 50 - 1520 mm | 100 m | 180°c |

Self-adhesive nylon 6 peel ply fabric, designed for hand lamination and the vacuum infusion process. The red tracer as a visible indicator reduces the possibility of any peel ply being left on the laminate.

GEFiM

# RESIN FLOW MEDIA

## SPIRAL WRAP



### GFM-1SPW-W

| | | | |
|---|---|---|---|
| TRANSLUCENT | 8/10 mm \| 09/12 mm<br>12/14 mm \| 14/17 mm<br>Customizable | 25 \| 100 m<br>Customizable | Max.<br>100°c |

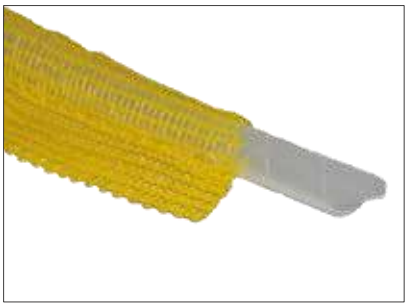


### GFM-1SPW-B

| | | | |
|---|---|---|---|
| BLACK | 12/14 mm | 50 m | Max.<br>100°c |

LDPE and PVC Spiral Tube is ideally suited for vacuum line extenders or resin feed lines. This tubing is often used in vacuum infusion to allow vacuum pressure to be easily dispersed around a part, and air removed from reinforcing material. Spiral tube can be used as resin or vacuum channel.

## SPIRAL TRAP



### GFM-1STRP-YW

| | | | |
|---|---|---|---|
| YELLOW<br>AND<br>WHITE | 8/10 mm \| 09/12 mm<br>12/14 mm \| 14/17 mm<br>Customizable | 25 \| 50 \| 100 m<br>Customizable | Max.<br>100°c |



## GFM-1STRP-GW

| GREEN AND WHITE | 8/10 mm \| 09/12 mm 12/14 mm \| 14/17 mm Customizable | 100 m Customizable | Max. 100°c |
|---|---|---|---|



## GFM-1STRP-BK

| GREEN AND BLACK | 12/14 mm | 50 m | Max. 100°c |
|---|---|---|---|

SPIRALTRAP is a vacuum infusion system consisting of a spiral wrap, wrapped in a special resin infusion net. Their union guarantees a better air/resin distribution and avoids excessive adherence as well as breaking the vacuum bag during the infusion process.

## GFM-1BRK-RESIN-PP-100



| TRASLUCENT WHITE AND RED | 09/12 mm 12/14 mm | 100 m Customizable |
|---|---|---|

Infusion system easy to remove thanks to a peel ply fabric combined with spiral wrap to help resin flow.

# **TUBULAR** MESH



### GFM-1TM004-OR0715-500

ORANGE | Max. 110°c | 7 / 15 mm

### GFM-1TM004-YL4060-300

YELLOW | Max. 110°c | 40 | 60 mm

### GFM-1TM004-WH2050-500

WHITE | Max. 110°c | 20 / 50 mm

Tubular extruded mesh is used to speed up the flow of the resin inside the vacuum bag, allowing the mixture to reach the outermost points of the mould in infusion processes. Each braid in different size and flow rate, can ensure an increase in speed in the production of a composite product adaptable to the size of the mould and process needs.

## GFM-1FLOWCHANNEL



| | | | | |
|---|---|---|---|---|
| GREY | 50 \| 100 mm | 50 \| 100 m | 4 mm | Max. 80°c |

GFM-1FLOWCHANNEL is a flexible composite resin flow channel in 100mm wide strips. It consists of a three-dimensional spacer matting, made from polypropylene monofilaments, pre-formed in a zig-zag configuration and wrapped in a non-woven sleeve.

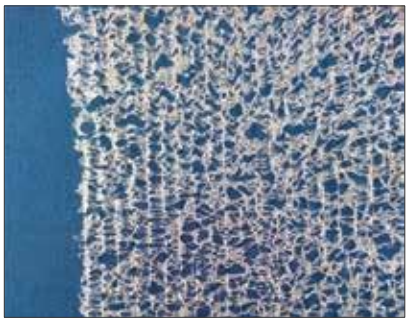
## GFM-1MESHCNL



| | | | |
|---|---|---|---|
| TRASLUCENT | 43 \| 45 \| 98 mm | 25 m | Max. 185°c |

The resin tape is a flow media which optimizes the vacuum infusion process (VIP). The vacuum infusion process is used for the manufacturing of composites. The advantages include easy handling and fixation, no adhesive tape necessary, fits well on curved components.

## GFM-1IMSTONE-W1000-100



| | | | |
|---|---|---|---|
| WHITE | 1000 mm | 100 m | Max. 60°c |

GFM-1IMSTONE-W1000-100 is a flexible infusion mesh produced from polyester monofilaments; the structure is three-dimensional. The matting is designed in a zig-zag configuration. This mesh is used as a flow medium with polyester or epoxy resins especially in marble blocs consolidation.

## GFM-1RESININFULINE-10



| | | | |
|---|---|---|---|
| WHITE | 100 mm | 25 m | Max. 60°c |

GFM-1RESININFULINE-10 is a flexible three-dimensional matting made from polyester monofilaments. The matting is preformed in a ZigZag pattern. The extremities of the matting are enclosed in two strips of spun bound - non-woven fabric to protect the film from the sharp edges. Resin infuline is used as a flow medium in resin infusion process.

# RESIN BRAKE LINE

## GFM-1STOPT-W100-25G



| | | | |
|---|---|---|---|
| SKY BLUE / WHITE AND RED | 100 mm | 25 m | Max. 120°c |

GFM-1STOPT-W100-25G is a resin brake system which includes a mesh braid, resin brake and peel ply to be applied to the outer edge of the infusion mould thus preventing waste and chocking of the vacuum system.

## GFM-1STOPT-W100-25



| | | | |
|---|---|---|---|
| WHITE | 110 mm | 25 m | Max. 120°c |

GFM-1STOPT-W100-25 is a resin brake system which includes a mesh braid, resin brake and non-woven fabric to be applied to the outer edge of the infusion mould thus preventing waste and chocking of the vacuum system.

## GFM-1STOPR



| | | | |
|---|---|---|---|
| WHITE AND SKY BLUE | 100 mm | 20 I 25 m | Max. 90°c |

GFM-1STOPR is a resin brake combination (spiral hose, Resin brake and release film P31) made to prevent it from sticking to the flange as well as bonding to the laminate. The retention capabilities of the micro-fibre eliminate the risk of resin breaching the vacuum system.

## GFM-1STOPB-W100-25G



| | | | |
|---|---|---|---|
| WHITE | 100 mm | 100 m | Max. 90°c |

GFM-1STOPB-W100-25G features a spiral hose sewn into an advanced core. Placed on the outer edge of the mould it provides even vacuum distribution and acts as a resin brake, thus preventing unnecessary resin waste and chocking of the vacuum system.

## GFM-1VRMEMBRANE-150-120



| | | | |
|---|---|---|---|
| TRASLUCENT | 150mm | 120 m | Max. 100 °c |

VR MEMBRANE is multi-layer solution designed to apply vacuum anywhere on the component preventing resin leaking into vacuum supply. In addition to optimizing the vacuum process the membrane significantly reduces the risk of dry spots.

## GFM-1STOPE-W50



| | | | |
|---|---|---|---|
| BLACK / WHITE AND RED | 50 mm | 50 m | Max. 80°c |

GFM-1STOPE-W50 is a brake system which includes a flow channel and peel ply; it's placed around the mould instead of the spiral pipe: when the resin reaches GFM-1STOPE, it is stopped meanwhile the gas is still eliminated from the laminate. It can also be set at any place on the laminate.

# **SEALANT** TAPES

## GFM-1BT120-IO-BK04



| | | | |
|---|---|---|---|
| BLACK | 4mm | 10 m | Max. 228°c |

GFM-1BT120-IO-BK04 Round Butyl Tape ø4 mm has been developed to perfectly adapt to the surface, even on complex parts geometry, it is easily compressible and tacky but won't flow out of the pinch weld.

## GFM-1BT100 /GFM-1BT120 / GFM-1BT205 / GFM-1BT220



| | | | | |
|---|---|---|---|---|
| BLACK | 3 mm<br>1,5 mm<br>3 mm<br>3 mm<br>2 mm | 9 mm<br>10 mm<br>10 mm<br>12 mm<br>10 mm | 15 m<br>22 m<br>15 m<br>15 m<br>22,5 m | 130°c |
| LIGHT GREY | 3 mm<br>3 mm | 10 mm<br>12 mm | 15 m<br>15 m | 100°c |
| YELLOW | 3 mm<br>3 mm | 10 mm<br>12 mm | 15 m<br>15 m | 205°c |
| DARK GREY | 3 mm<br>3 mm | 10 mm<br>12 mm | 15 m<br>15 m | 220°c |

Consists of a high-performance butyl sealing tape. These preform tapes have been designed for sealing in both “bag to tool” and “bag to bag” applications. With aggressive initial tack, this butyl sealing tape maintains an air-tight seal during the cure cycle and the tool clean from the strip, with virtually no trace of residue.

## GFM-1ALUBT-GY50X08



| | | | | |
|---|---|---|---|---|
| GREY | 8 mm | 50 mm | 10 m | Max. 120°c |

High performance sealant tape reinforced with aluminum foil guarantees high tack on all common building materials even at low temperatures, resistant to ageing and UV-rays.

# **ADHESIVE** TAPES

## GFM-1FTAPE-PTFE

NEW !



| BROWN | 89 µm | 25 \| 50 mm | 33 m | Max. 260°c |
|---|---|---|---|---|

GFM-FTAPE-PTFE is a PTFE film coated with silicone adhesive. Ideal for many applications including temporary tool surface repair, sealing of split moulds and where release in tight angles is required. Excellent release properties and resistance to high temperatures.

## GFM-1FTAPE-G



| GREEN | 60 µm | 25 \| 50 mm | 66 m | Max. 228°c |
|---|---|---|---|---|

Green high temperature tensile polyester film, coated with a fully cured silicone adhesive suitable for autoclave curing process.

## GFM-1FTAPE-B



| BLUE | 55 µm | 25 \| 50 mm | 66 m | Max. 220°c |
|---|---|---|---|---|

Blue high temperature tensile polyester film, coated with a fully cured silicone adhesive suitable for autoclave curing process. Softer and stretchier compared to GFM-FTAPE-G

GEFIM

# ANCILLARIES

## GFM-1PLST-W350




WHITE

350 g

GFM-PLST-W350 is a medium hardness modelling clay ideal for rounding off the sharp edges of a mould and sealing joints between moulds and additional components. Suitable for any type of infusion process.

## GFM-1-M18-600




TRASLUCENT

600 ml

GFM-1-M18-600 repositionable spray glue is made for vacuum infusion and RTM processes and guarantees optimum tack during the moulding. The glue does not interfere with the quality and integrity of the lamination. Among its features are: holding of hybrid materials and low drying shrinkage.

## GFM-1GFTAPE-50



WHITE

75 g/m²

50 mm

90 m

Max. 180°c

This tape is used to hold dry fabrics in place for your infusion process as the structure will not inhibit resin flow.

## GFM-1LDPEP



| | | | | |
|---|---|---|---|---|
| TRASLUCENT | 1,0 mm<br>1,2 mm<br>1,5 mm<br>1,5 mm | 8x10 \| 10x12 \| 12 x14 mm<br>12,5 x15 mm<br>13 x 16 \| 14 x17 \| 15,5 x19 mm<br>17 x 20 mm | 100 m<br>100 m<br>100 m<br>300 m | 100°c |

Translucent pipe used as resin distributors or vacuum lines. (max working pressure

## GFM-1LCON / GFM-1TCON
## GFM-1ICON / GFM-1VV



| | | | |
|---|---|---|---|
| BLACK | WHITE AND RED | For pipe 10/12<br>12/14 \| 12,5/15 \| 13/16<br>14/17 \| 17/20 | 100°c |

Range of connectors and valves for joining and connecting hoses or other auxiliaries which make up the vacuum line. Perfectly compatible with other fittings and auxiliaries.

## GFM-1INP



| | | |
|---|---|---|
| BLUE \| GREEN<br>ORANGE<br>YELLOW \|<br>GREY | For pipe 10/12<br>12,5/15 \| 13/16<br>14/17 \| 16/19 | 120°c |

Infusion plugs for vacuum and resin supply lines of different diameters. The round edged of the plugs protect the vacuum bags from damages. Two options are available: spiral base to be used with multiple spiral systems; flat base to be used on resin feed lines.

## GFM-1INP-CLIP



BLUE AND ORANGE

10 X 12
13 X 16

Max. 120°c

GE.FIM clip-on plugs easily fit onto Ge.Fim infusion lines without the need to cut or open a traditional T-Piece connector. The clip-on infusion plug proves suitable when working on vertical plains. Saves time and helps prevent marks on the components.

## GFM-1INP-FLAT



BLUE
ORANGE
GREEN

10 X 12
13 X 16
12.5 X 15

Max. 120°c

GE.FIM flat infusion plugs for vacuum and resin feed lines of different diameters. The round edge protects the vacuum bags from damages.

## GFM-1A101-TLV



ALUMINIUM

6,25 mm coupling
60 mm base diameter

Max. 10 Bar

Max. 210°c

Twist lock valve that is placed through the vacuum bag, the flat base and twist lock design make it easy to install to ensure good seal and safe vacuum bag. Maximum service temperature 210°C

## GFM-1A101-THV



| | | | |
|---|---|---|---|
| ALUMINIUM | 6,25 mm coupling<br>60 mm base diameter | 10 Bar | 210°c |

Threaded vacuum link is suitable for the most varied types of productive processes of composite articles, perfectly compatible with our line of quick release couplings. The ring lock makes it sturdy and reliable in all working conditions.

## GFM-1A101-SIDEVALVE



| | | | |
|---|---|---|---|
| ALUMINIUM | 6,25 mm coupling | 10 Bar | 210°c |

Side edge vacuum valve which allows identical expansion at the top and bottom.

## GFM-1A1O2



| | | | | |
|---|---|---|---|---|
| GREEN | 9,5 mm internal<br>17,5 mm external | 1 m to 30 m<br>Customizable | 10 Bar | 250°c |

High temperature platinum cured silicone hose, reinforced with fiberglass, manufactured to the highest standards, from specially developed material. Designed for minimal heat shrinkage and no free silicone particle contamination. GFM-A102 is extremely durable and flexible, easy to handle and safe, with no sharp features thus preventing cuts to personnel or materials. It can be manufactured with straight fittings or 90° fittings.

## GFM-1A103-MSK-VT / GFM-1A103-FSK-VT



| | | | |
|---|---|---|---|
| STEEL | 6,35 mm<br>male and female | 12 Bar | 210°c |

Quick release couplings designed for use in autoclaves and ovens, high temperature tooling and other related equipment. The coupling come with Viton seals and are reusable. The internal shut-off valve ensures the vacuum is preserved even after the vacuum hose has been disconnected.

## GFM-1A104-STEELGAUGE



| | | | |
|---|---|---|---|
| STEEL | 6,25 inch | 0 - 1 Bar | -20°c to 60°c |

GFM-1A104-STEELGAUGE is a shock resistant glycerin filled vacuum gauge with a -1 to 0 bar vacuum pressure range comes with a steel casing and copper 1/4" male BSP thread. The gauge can easily display whether a bag or mould is leaking and show the rate of vacuum decay.

## GFM-1EXT



| | | | |
|---|---|---|---|
| STEEL | S<br>M<br>L | 10 mm<br>10 mm<br>20 mm | 22x22 mm<br>45x45 mm<br>45x37 mm |

Complete kit extractor plus handle, help vacuum infusion process, high quality and stainless steel. Each kit combines extractor and a t-shaped handle dimensions according to size (small/medium/large).

## GFM-1TRAP-10LT



STEEL | 10 L | 240 MM | 90°c

Is a vacuum container designed to simplify and improve the resin infusion process. Completely made of steel, this Resin Trap is equipped with a vacuum gauge, connections and an overhead hook. Four Quick-fastening systems are designed to guarantee watertight sealing.

## GFM-1DCLAMP



STEEL

Dolphin infusion hose clamps are professional locking pliers for use in resin infusion applications. Hoses can be clamped to prevent the flow of resin. These fully adjustable pliers feature a non-slip grip, making for an ergonomic design.

## GFM-1POLYSTAPLES-14




WHITE | 12,5 mm | 14 mm

GFM-1STAPLES-14 are non-metallic staples made from a composite blend of polymer and fiberglass. They are suitable for any application where other fasteners cannot be used.

## GFM-1STAPLE-GUN-81P



BLACK AND BLUE

Manual staplers are ergonomically designed for comfort, ease of use and top performance. Extremely fast, powerful, lightweight, well-balanced and rugged for demanding industrial applications.

GEFiM
COMPOSITES SOLUTION

# FIBER GLASS PRODUCT RANGE

# CHOPPED STRAND MAT

### GFM-1MAT

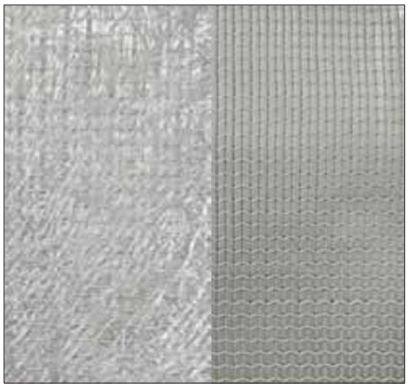


| | | | |
|---|---|---|---|
| WHITE | 300 g<br>450 g<br>600 g | Emulsion / Powder<br>Emulsion<br>Emulsion | 100mm / 1250mm<br>1250 mm<br>1250 mm |

CHOPPED STRAND MAT is a non-woven reinforcement material made from continuous filament roving, cut into 50 mm lengths and bonded together using a powder binder. This product is compatible with unsaturated polyester, vinyl ester, and epoxy resins.
It is specifically designed for hand lay-up and continuous production processes.

# FIBER GLASS TISSUE

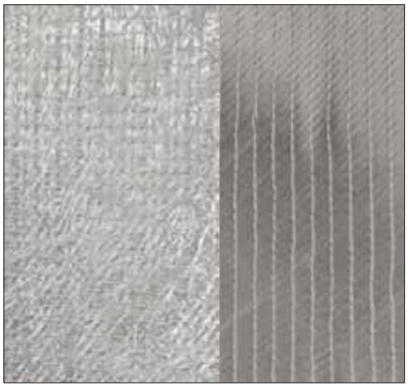
### GFM-1FGT90



| | | |
|---|---|---|
| WHITE | 400 g/m²<br>600 g/m²<br>800 g/m²<br>1200 g/m²<br>450/150 g/m²<br>600/225 g/m²<br>850/225 g/m²<br>1200/150 g/m² | 1270 mm |

BIAXIAL and MULTILAYRED FABRIC are composed of untwisted fiberglass rovings arranged in 90°orientations—warp (0°), we (90°) – and may include a chopped strand layer for added reinforcement (multilayered).
The layers are stitched together using durable polyester thread.
This fabric can be custom-cut to meet the requirements of various applications, including wind energy, marine, automotive, and other industrial sectors.

## GFM-1FGB45



WHITE

400 g/m²
600 g/m²
800 g/m²
450/150 g/m²
600/225 g/m²

1270 mm

BIAXIAL and MULTILAYRED FABRIC are composed of untwisted fiberglass rovings arranged in +/- 45° orientations - warp (+/- 45°) we (+/- 45°)- and may include a chopped strand layer for added reinforcement (multilayered).
The layers are stitched together using durable polyester thread.
This fabric can be custom-cut to meet the requirements of various applications, including wind energy, marine, automotive, and other industrial sectors.

## GFM-1QX



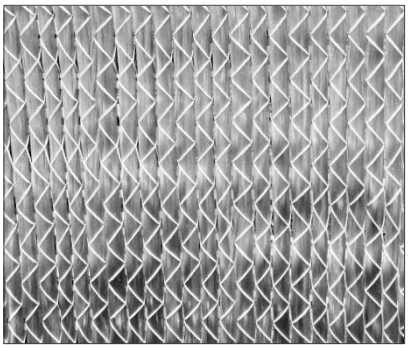
WHITE

1600 g/m²

1270 mm

QUADRIAXIAL GLASS FABRIC of 1600 g/m2 made from four layers of unidirectional fabric oriented at 0°, +45, 90° and -45º respectively.
Extensively used for hand lay-up, injection or infusion and RTM.
Suitable for any type of thermosetting resin like polyester, vinyl ester or epoxy.

## GFM-1UDR



WHITE

1000 g/m²

100 mm
120 mm
150 mm
200 mm
250 mm

UNIDIRECTIONAL GLASS FABRIC of 1000 g/m2 oriented at 0°.
Extensively used for hand lay-up, injection or infusion and RTM .
Suitable for any type of thermosetting resin like polyester, vinyl ester or epoxy.

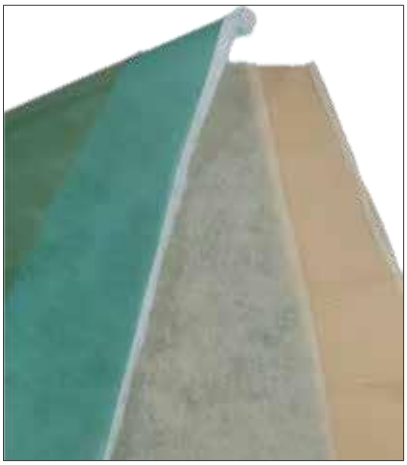
GEFiM

COMPOSITES SOLUTION

# CUSTOMIZED KITTING SOLUTIONS

# **VACUUM BAGGING**
# KITTING SOLUTION

## • ALL IN ONE KIT



All-in-one pre-made kits are designed to simplify your vacuum bagging process. These can include vacuum bagging films, release films and bleeders cut-to-size, welded or sealed with butyl sealant tape following customer requirements

## • WELDED VACUUM BAGGING READY TO USE

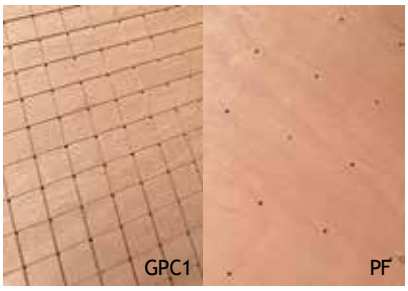


Welded vacuum bagging films are ready-to-use solutions designed to save time and money, reduce waste and increase productivity.
Our ready-to-use solutions can be made with low, medium and high temperature films of different sizes kitted as foil, open and closed tubes according to customer requirements.

GEFiM

# CORE MATERIALS
# KITTING SOLUTION

## • MARINE PLYWOOD

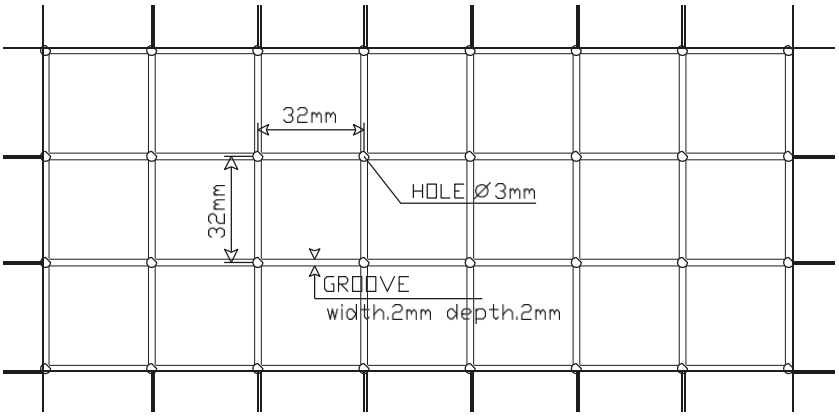



2500 x 1220 mm | 3,05 m²

5 | 10 | 15 | 20 | 25 | 30
35 | 40 mm

Multi -layer panel consisting of an odd number of strips of okoumè wood arranged in a cross-grain pattern and glued together using melamine glue.
Several types of finishing are possible for use in the production of composites, both with hand-lamination or infusion process.

| FINISH | DESCRIPTION | SPACING (mm) | DIAMETER (mm) |
|---|---|---|---|
| GPC1 | GROOVE + PERFORATION | 32 x 32 | Ø 3 |
| PF32 | PERFORATION | 32 x 32 | Ø 3 |
| PF64 | PERFORATION | 64 x 64 | Ø 3 |
| PF96 | PERFORATION | 96 x 96 | Ø 3 |

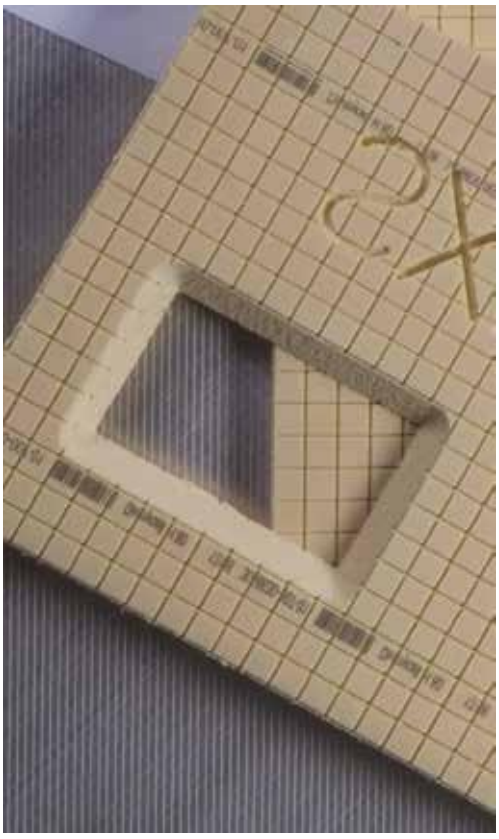


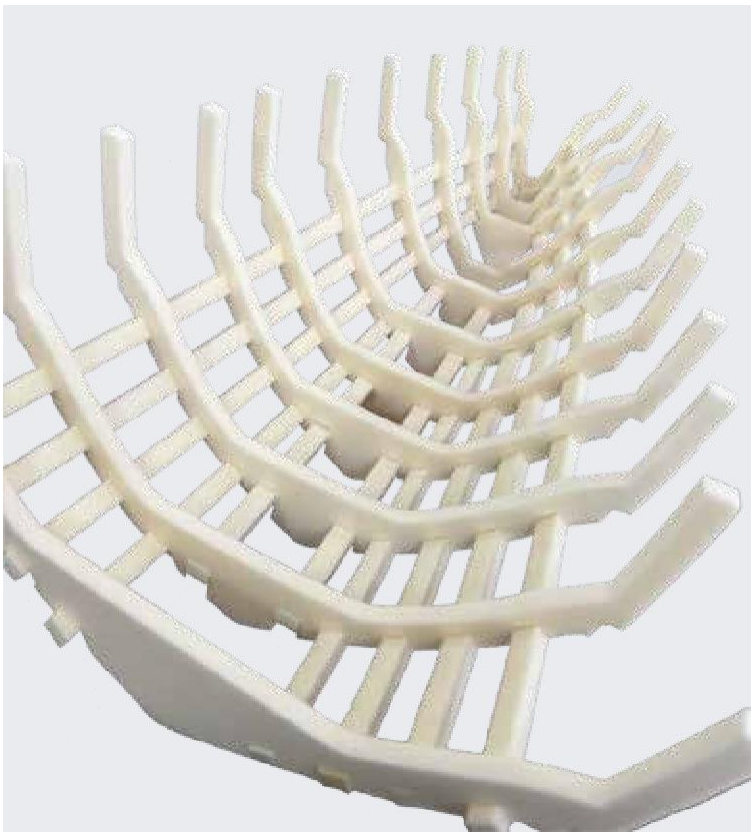

Grooving specifications: longitudinal and trasversal grooves 2 mm deep and 2 mm wide, arranged in a diamond-shaped grid with a spacing of 32 mm.

# **CORE MATERIALS**
# KITTING SOLUTION

- ## POLYURETHANE AND PVC KITTING CENTRE

Ge.Fim kits are a custom-made set of core elements. The kit can consist of simple pre-cut core panels, or complex 3D shapes made with CNC machines. Each piece is pre-cut and then numbered to fit precisely into its designated place within the mould. Kits are designed based on the client's application's requirements. Our kit engineers take geometry and your manufacturing process into account when designing each kit. Manufacturing processes can be streamlined to improve the quality of composite applications with pre-cut parts (kits). By eliminating the on-site cutting of sheets, manufacturing time is reduced and the same goes for labor and material costs. Our kitting facility can cost effectively machine foam core materials in all densities and thicknesses.





# **MOULDS AND MODELS** DIVISION



GE.FIM has an internal fiberglass moulding division which produces master plugs. Thanks to the recent investments and know how, GE.FIM is able to offer support for the design and production of master plugs and moulds for composite materials for a number of different sectors such as marine, wind energy and automotive, shaping even the most complex moulds, to obtain the required characteristics. The company can supply custom made moulds in fiberglass ready for waxing, according to the layering indicated by customer.

Particularly appreciated by customers in the nautical world is the ability to offer a complete supply of plugs from a variety of materials and respond to countless customer requests, even the most complex ones.

Workable materials are many and are chosen directly with the customer based on the type of use:

- MDF
- POLYSTYRENE
- EPOXY PASTE
- POLIZENE
- DELRIN
- UREOL
- POLYETHYLENE

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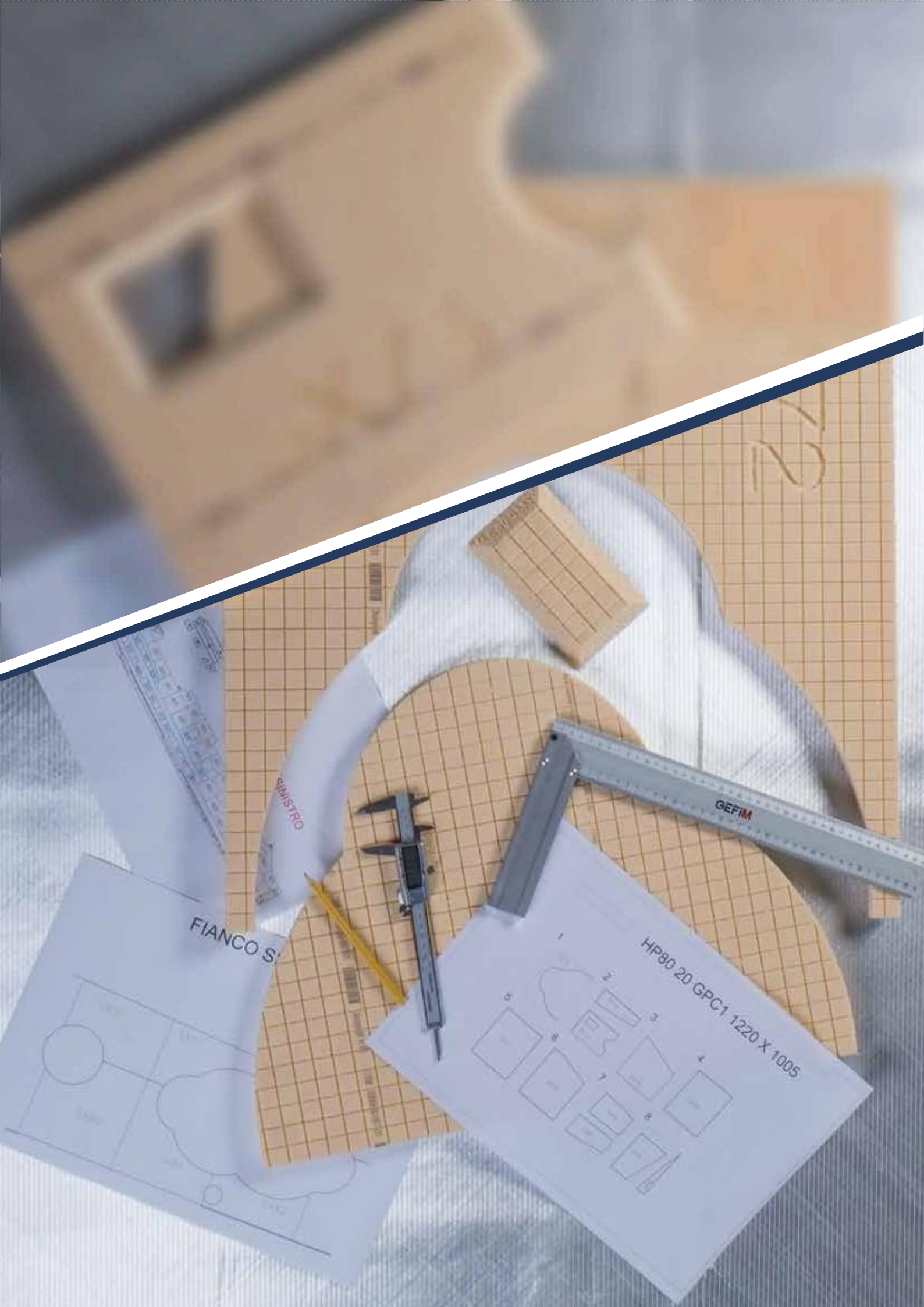
SINISTRO
GEFIM
HP80 20 GPC1 1220 X 1005