

Pultrusion

VE, UP, EP

## Advantex® glass

Advantex® glass has been formulated to be a boron-free E-glass and to possess significantly improved corrosion resistance across a wide range of aggressive environments. Advantex® glass is both an E-CR glass and an E-glass in accordance with ASTM D578 and ISO 2078.

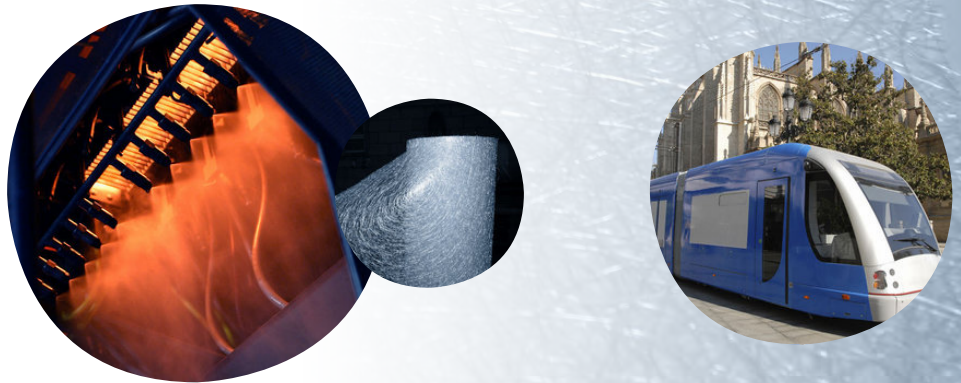
This translates into important benefits for our customers over traditional E glass: longer service life, larger safety coefficients for the same design, and material savings.

Traditional E-glass includes boron and often contains added fluorides. By using new manufacturing technology to eliminate these components from the glass composition, Advantex® has become a benchmark for integrated pollution prevention and the highest energy efficiency – all in an optimized process.

3B measures its efforts to minimize impact on the environment by establishing environmental footprint diagrams that compare traditional E-glass production with an Advantex® manufacturing platform. 3B is continually working to minimize its impact on the environment and to set new standards within the global fibreglass industry. This is our commitment.

## CM 6060 & CM 6065

### White CFM for pultruded parts



#### Product Description

3B Continuous Filament Mat is a non-woven mat made out of Advantex® filaments, consisting of continuous fibres randomly oriented in multiple layers. The glass fibre is bonded with a silane coupling agent and the layers held together with a suitable binder. The CM 6060 & CM 6065 family products contain an insoluble binder compatible with a large range of thermoset matrices like both unfilled or filled unsaturated polyester (UP), vinyl ester (VE) and epoxy (EP).

Both CM 6060 and CM 6065 mats are characterised by their white colour and are ideally suited for pultrusion processes for wide, long and heavy parts but as well as for narrow and complex profiles. The excellent mechanical properties provided by 3B CFM combined with the good electrical properties of the resins make the pultruded parts attractive for the electrical apparatus (high voltage), transportation industries and infrastructures equipments.

FEATURES	BENEFITS
<ul style="list-style-type: none"> <li>• High dry strength and wet strength</li> <li>• Insoluble binder</li> </ul>	<ul style="list-style-type: none"> <li>• For a high tearing resistance</li> <li>• For wash resistance</li> <li>• For a fast throughput production and high productivity</li> </ul>
<ul style="list-style-type: none"> <li>• High quality wrapping of the rolls</li> </ul>	<ul style="list-style-type: none"> <li>• Easy to slit into various widths</li> <li>• Easy to handle and place into the die of the mould</li> </ul>
<ul style="list-style-type: none"> <li>• White colour of CM 6060 mat</li> <li>• Soft behaviour of CM 6060 mat</li> </ul>	<ul style="list-style-type: none"> <li>• Excellent visual aspect of the pultruded part</li> <li>• Easier conformability</li> </ul>
<ul style="list-style-type: none"> <li>• White colour of CM 6065</li> <li>• Rigidity of CM 6065</li> </ul>	<ul style="list-style-type: none"> <li>• Excellent visual aspect of the pultruded part</li> <li>• Improved tensile strength</li> </ul>

# CM 6060 & CM 6065

## White CFM for pultruded parts

PRODUCT CHARACTERISTICS						
Product name	Weight <sup>(1)</sup> g/m <sup>2</sup>	Width <sup>(1)</sup> cm	Bundle density tex	Solid content %	Resin compatibility	Process
CM 6060	300	130-170	20	3,5	VE, EP, UP	Pultrusion
	450	130-170	20	3,5	VE, EP, UP	Pultrusion
	600	130-170	20	3,5	VE, EP, UP	Pultrusion
CM 6065	300	130-170	20	4,2	VE, EP, UP	Pultrusion
	450	130-170	20	4,2	VE, EP, UP	Pultrusion
	600	130-170	20	4,2	VE, EP, UP	Pultrusion

**PACKAGING**

The 3B Continuous Filament Mat is wound on a hard carton tube with an inside hole of 102 mm and an external diameter of 110 mm. A PE stretch film is wrapped around the roll to protect the material during handling and to help the slicing.

All CFM have 2 sides trimmed.

The outside diameter of the roll is a standard of 55 cm.

- For mat widths up to 210 mm: 6 vertical rolls per pallet
- For mat widths above 210 mm: 6 horizontal rolls per pallet

Each roll is identified by a roll label

Each pallet is identified by minimum one pallet label including the date and the pallet weight

The load is fixed to the pallet with a stretch film

For more details on packaging, please contact the technical person.

**STORAGE**

Storage in a cool and dry warehouse into the original packaging is formally recommended. More precisely, ideal storage conditions are a temperature between 15°C and 35°C and a relative humidity comprised between 35% and 75%.

If these conditions are maintained, the glass fibre product should not undergo significant changes when stored for extended periods of time. It is also strongly recommended to condition it in the workshop for at least 24 hours before use to prevent condensation.

For an optimal processing we recommend to use the product in ambient conditions (20°C-23°C and a relative humidity of 60%-65%).



Customer Service office :  
 I. Vandammestraat 5-7 Bat B  
 B-1560 Hoeilaart, Belgium  
 phone +32 2 402 2000  
 fax +32 2 402 2002  
 General info: 3B.info@3b-fibreglass.com

**Disclaimer of Liability** This data is offered solely as a guide in the selection of a reinforcement. The information contained in this publication is based on actual laboratory data and/or field test experience. We believe this information to be reliable, but do not guarantee its applicability to the user's process or assume any liability arising out of its use or performance. The user, by accepting

the products and/or services described herein, agrees to be responsible for thoroughly testing any application to determine its suitability before committing to production. It is important for the user to determine the properties of its own commercial compounds when using this or any other reinforcement.

BECAUSE OF NUMEROUS FACTORS AFFECTING RESULTS, WE MAKE NO WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. STATEMENTS IN THIS DATA SHEET SHALL NOT BE CONSTRUED AS REPRESENTATIONS OR WARRANTIES OR AS INDUCEMENTS TO INFRINGE ANY PATENT OR VIOLATE ANY LAW, SAFETY CODE OR INSURANCE REGULATION.