

Injection Moulding,
RTM, S-RIM, Infusion

PU, VE, UP, EP

ECR glass

3B E-CR glass is boron-free and presents significantly improved corrosion resistance across a wide range of aggressive environments.

3B glass is E-CR according to ASTM D578 and ISO 2078.

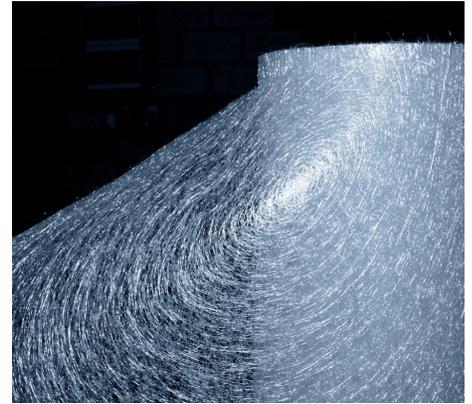
This translates into important benefits for end-users over traditional E-glass: longer service life, larger safety coefficients for the same design, and material savings. Traditional E-glass includes boron and often contains added fluorides. By using new manufacturing technology to eliminate these components from the glass composition, 3B E-CR glass has become a benchmark for integrated pollution prevention and the highest energy efficiency – all in an optimized process.

3B measures its efforts and works continually to minimize its impact on the environment and to set new standards within the global fibreglass industry. This is our commitment.

www.3B-fibreglass.com

M 8610 & M 8615

CFM for Closed Mold Process



Product Description

3B Continuous Filament Mat is a non-woven mat made out of ECR glass 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 CFM products contain an insoluble binder compatible with both unfilled or filled unsaturated polyester, vinyl ester, epoxy and polyurethane resin systems. The M 8610 mat is ideally suited for

injection moulding, RTM and S-RIM processes for moulding complex parts. The M 8615 mat version, with its high rigidity, helps to work with large CFM cuts without losing fibres. The excellent mechanical properties provided by CFM combined with the good electrical properties of the resins make the moulded parts attractive for applications like electrical apparatus (high voltage), transportation & automotive industries and infrastructures equipments.

FEATURES	BENEFITS
<ul style="list-style-type: none"> Insoluble binder Continuous fibre Improved integrity of the layers of the mat Softness of the mat 	<ul style="list-style-type: none"> Can be unrolled, cut and conveyed to the mould without losing mat integrity even with large parts for the M 8615 series Conform to complex and difficult shapes without causing wrinkles or leaving resin-rich radii, which may cause cracking Resist to relocation in the mould under pressure and resin flow (wash resistance)
<ul style="list-style-type: none"> High bundle linear density (tex) for porosity 	<ul style="list-style-type: none"> Little resistance to resin flow for an easy and fast wet-through, even with filled resin resulting in a high productivity

M 8610 & M 8615

CFM for Closed Mold Process

PRODUCT PORTFOLIO

Product name	Weight ⁽¹⁾ g/m ²	width ⁽²⁾ cm	Bundle density tex	Solid content %	Resin compatibility	Process
M 8610	300	130-260	30	2,5	PU, VE, EP, UP	MDM,RTM, S-RIM, Infusion
	450	130-260	30	2,5	PU, VE, EP, UP	MDM,RTM, S-RIM, Infusion
	600	130-260	30	2,5	PU, VE, EP, UP	MDM,RTM, S-RIM, Infusion
	750	130-260	30	2,5	PU, VE, EP, UP	MDM,RTM, S-RIM, Infusion
M 8615	225	130-260	30	3,5	PU, VE, EP, UP	MDM,RTM, S-RIM, Infusion
	300	130-260	30	3,5	PU, VE, EP, UP	MDM,RTM, S-RIM, Infusion
	450	130-260	30	3,5	PU, VE, EP, UP	MDM,RTM, S-RIM, Infusion
	600	130-260	30	3,5	PU, VE, EP, UP	MDM,RTM, S-RIM, Infusion

(1) OTHER WEIGHTS AVAILABLE UPON REQUEST

(2) OTHER WIDTHS AVAILABLE UPON REQUEST

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 rolls have 2 sides trimmed.

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

- For mat widths up to 210 cm : 6 vertical rolls per pallet
- For mat widths above 210 cm : 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%).



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