

Metal Die Moulding,
RTM, S-RIM

PU, VE, UP, EP

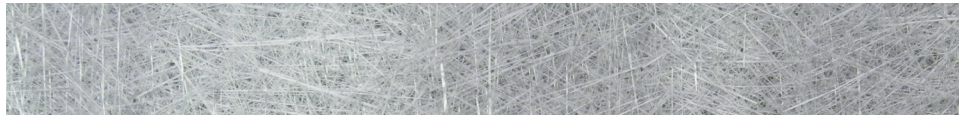
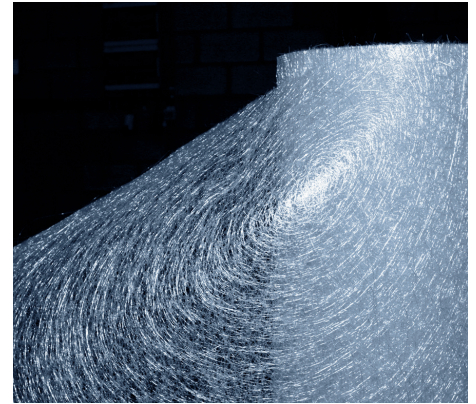
E-CR glass

3B glass is boron free and complies with ASTM D578 and ISO 2078 norms qualifying as an E-CR glass. The E-CR glass presents significantly improved corrosion resistance across a wide range of aggressive environments.

With comparison with traditional E-glass, E-CR glass offers longer service life, larger safety coefficient for the same design and material savings. Also, as it contains no boron or added fluorides, the E-CR glass allows for a reduced environmental footprint.

M 8630

CFM for Press moulding



Product Description

3B Continuous Filament Mat (CFM) is a non-woven mat made out of E-CR glass filaments, consisting of continuous fibres randomly oriented in multiple layers. The glass fibre is bonded with a silane coupling agent and the layers are held together with a suitable binder. The **M 8630** family products contain an insoluble binder compatible with a large range of thermoset matrices like both unfilled or filled unsaturated polyester, vinyl ester, epoxy and polyurethane

resin systems. The **M 8630** emulsion mat is ideally suited for matched metal die moulding, RTM and S-RIM processes for moulding flat, large and heavy panels or non complex parts. The excellent mechanical properties provided by 3B CFM combined with the good electrical properties of the resins make the moulded parts attractive for applications like electrical apparatus (high voltage), transportation industries and infrastructures equipments.

FEATURES

- Integrity and rigidity of the mat
- Porosity

BENEFITS

- Designed for large panel production
- Can be unrolled, cut and conveyed to the mould without losing mat integrity even with large parts
- Easy to tailor to shape design 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)
- Little resistance to resin flow for an easy and fast wet-through, even with filled resin

M 8630

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PRODUCT PORTFOLIO

Product name	Weight ⁽¹⁾ g/m ²	width ⁽²⁾ cm	Bundle density tex	Solid content %	Resin compatibility	Process
M 8630	300	130-170	20	2,5	PU, VE, EP, UP	RTM, S-RIM
	450	130-170	20	2,5	PU, VE, EP, UP	RTM, S-RIM
	600	130-170	20	2,5	PU, VE, EP, UP	RTM, S-RIM

(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 3B CFM rolls 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
- For more details on the packaging, please refer to the CFM Packaging Datasheet.

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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