Binani 3B the fibreglass company

BRAJ BINANI GROUP

datasheet

Pultrusion

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.

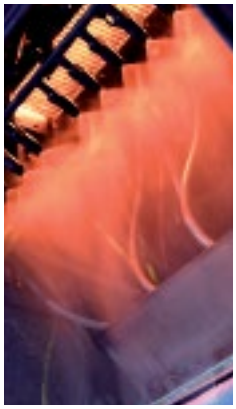
This translates into important benefits for end-users over traditional E-glass: longer service life, larger safety coefficients for the same design, and material savings. Traditional E-glass includes boron and often contains added fluorides. By using new manufacturing technology to eliminate these components 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.

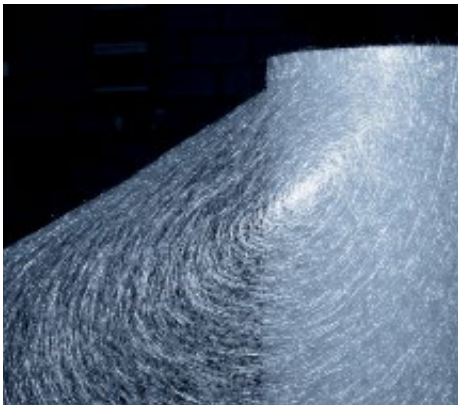
3B measures its efforts and works continually to minimize its impact on the environment and to set new standards within the global fibreglass industry. This is our commitment.

www.3B-fibreglass.com

M 8643

CFM for pultruded parts





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 held together with a suitable binder.
The M 8643 products contain an insoluble binder compatible with a large range of thermoset matrices like both unfilled or filled unsaturated polyester (UP), vinyl ester (VE), epoxy (EP) and polyurethane (PU) resin systems.
The M 8643 emulsion mat is ideally suited for pultrusion processes for wide, long and heavy parts but also for narrow and complex profiles. The excellent mechanical properties provided by 3B CFM combined with the good electrical properties of the resins (i.e. UP) make the pultruded parts attractive for the electrical apparatus (high voltage), transportation industries and infrastructure equipments.

FEATURES	BENEFITS
High dry strength and wet strength	For a high tearing resistance
Insoluble binder	For wash resistance For a fast throughput production and high productivity
High quality wrapping of the rolls	Easy to slit into various widths
Rigid rolls	Easy to handle and place into the die of the mould

M 8643

CFM for pultruded parts

datasheet

PRODUCT PORTFOLIO

Product name	Weight[1] g/m²	Width [2] cm	Bundle density tex	Solid content %	Resin compatibility
M 8643	225	127	20	4.25	VE, EP, UP
	300	130-170	20	4.25	VE, EP, UP
	450	130-170	20	4.25	VE, EP, UP
	600	125	20	4.25	VE, EP, UP

(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 cm : 6 vertical rolls per pallet
· For mat widths above 210 cm : 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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