CHOPPED STRAND MAT
Glass Fiber Technology Co. Ltd.

Technical Data Sheet

E-Glass Chopped Strand Mat Powder Bonded Fiber1 ECM2

Fiber1 ECM2 is the trade mark of the chopped strand mat which is manufactured by Glass Fiber Technology Co. Ltd. Made from E-Glass chopped strands bonded with Powder binder designed for use in orthophthalic and isophthalic polyester, vinylester, and epoxy resin systems.

Chopped strand mat is primarily use for Hand Lay-Up (HLU) process, Filament Winding (FW) process and Press Molding of FRP products that includes Water Tanks, Boats, Bathroom Accessories, Pipes, Shelter, Building Materials, Automobiles, Furnitures, Agro Equipments and other FRP products.

NAMING:

Example : Fiber1 ECM2 – 450P/127

Fiber1 : Trademark of Glass Fiber Technology Co. Ltd (GFT).
ECM2 : GFT Code
450 : Density (g/m^2)
P : Powder Bonded
127 : Mat Width in cm.

KEY FEATURES

- Fast & Easy Impregnation.
- Fast-Wet-Through and de-airing.
- Excellent Conformability.
- Good Mechanical Properties.
- Low Resin Consumption.
- Silane Based Sizing on Strands.

PRODUCTS AVAILABLE

The main advantage of **Fiber1 ECM2** chopped strand mat is the availability of an extensive range of widths and weights (widths from 25 to 260 cm, nominal weights from 150 to 900 g/m^2). Most combinations of weights and widths can be supplied. Subject in some cases to minimum order quantities, extended lead times and complementary widths.

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PRODUCT PROPERTIES (Standard)

Weight (Density)	Tensile Strength (MPa)	Loss On Ignition (%)	Residual Moisture	Width (Standard)
225 g/m^2	120 MPa	4% mass	0.02% mass	127 cm
300 g/m^2	196 MPa	4.5% mass	0.02% mass	127 cm
450 g/m^2	245 MPa	4.5% mass	0.02% mass	127 cm
600 g/m^2	294 MPa	4.5% mass	0.02% mass	127 cm
Tolerance ± 8%	***212 ± 49***	***4.5 ± 0.5***	***0.2% max***	***± 3***

PACKING

Each roll is put into individual carton then palletized. For bulk packing for each pallet we put 16 rolls.

STORAGE

It is recommended that fiberglass is store vertically in a cool and dry environment, with recommended storage temperatures ranging between 10 ~ 30 ^oC and its relative humidity between 50 ~ 75%, to avoid problems with humidity or static electricity, the glass product should be conditioned in the working area prior to use. This fiberglass should remain in the packaging prior to its use.

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