

Hand Lay-up

E-CR 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 glass fibre industry. This is our commitment.

PM 1013

Chopped Strand Mat (Powder) for Unsaturated Polyester, Vinylester & Epoxy Resins



Product Description

3B Chopped Strand Mat (CSM) is a non-woven mat made from 3B E-CR glass filaments, consisting of chopped fibres randomly and yet evenly orientated. The 50 mm-long chopped fibres are coated with a silane coupling agent and are held together using powder binder.

CSM is suitable for hand lay-up processes using thermoset resin systems to manufacture a wide range

of products for the chemical and electrical industries.

Powder Mat is widely used in the manufacturing of translucent roof-light sheets allowing light to transmit and hence reducing consumption of electricity. Powder Mat is preferred in moulding of chemical tanks. It is also used in vacuum impregnation processes.

CSM PM 1013 conforms to BS 14118 and IS 11551.

FEATURES	BENEFITS
Unsaturated Polyester, Vinylester and Epoxy resins compatible	Maximum flexibility on workshops with minimum inventory
Boron-free E-CR glass	Environment-friendly, offering high corrosion resistance
Rapid resin impregnation	High productivity
Easy air removal	Good laminate surface
Excellent styrene solubility of binder	Leading to translucent moulded product
Better chemical resistance	Preferred for moulding of chemical tanks
Excellent drapability	Suits easily the surface of intricate moulds
Excellent integrity of Mat	Easy handling and better appearance of finished product

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PRODUCT CHARACTERISTICS

Density/GSM gm/sqm	Width cm	Roll weight (for 100 cm) kg	Solid content %	Moisture content %
225	100/125	30-40	4.5	Max 0.2
300	100/125	30-40	4.5	Max 0.2
450	100/125	30-40	4.0	Max 0.2
600	100/125	30-40	4.0	Max 0.2

Other densities and widths available upon request

PACKAGING

The 3B Chopped Strand Mat is wound on a hard paper core with an inside diameter of 77 mm and an external diameter of 83 mm. Rolls are wrapped in polyethylene bags and packed in corrugated cartons (27 cm x 27 cm) having standard length. A typical pallet of 110 cm x 110 cm contains 16 cartons placed on pallet and stretch wrapped with plastic film for protection. Mat is one/both side trimmed.

Each roll and pallet is identified by a label.

STORAGE

Vertical storage in a cool and dry warehouse into the original packaging is formally recommended.

Ideal storage conditions are a temperature between 15°C & 35°C and a relative humidity comprised between 35% & 85%. 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 in a packed condition 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-30°C and a relative humidity of 60%-65%).



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