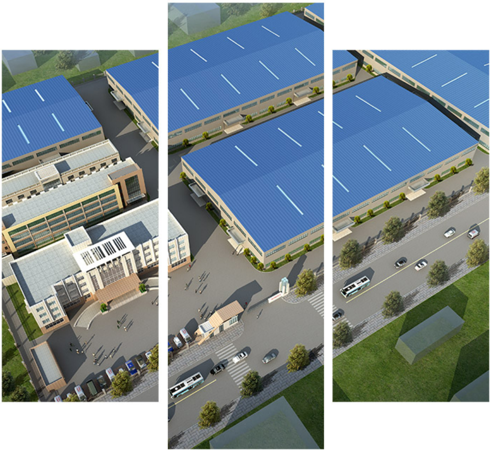
FIBERGLASS MAT

Magotan Alltrack

Hebei Yuniu Fiberglass Manufacturing Co .,Ltd

FIBERGLASS

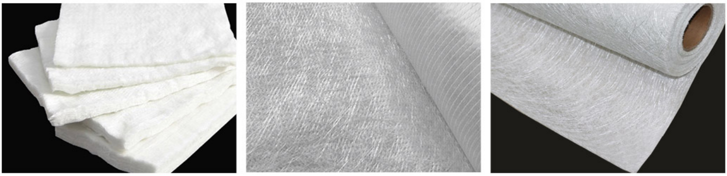
- PRODUCT INTRODUCTION
- PRODUCTION PROCESS
- PACKAGING AND STORAGE
- APPLICATION AREA
- CONTACT INFORMATION



Fiberglass Mat

Chopped Strand Mat is made of E/C-glass Chopped Strands, which are randomly distributed and bonded together with polyester binder in powder and emulsion form.

The mats are compatible with unsaturated polyester, vinyl ester and other various resins. It's mainly used in hand lay-up, filament winding and compression molding processes. The typical FRP products are panels, tanks, boats, pipes etc.



FEATURES

1、THE RESIN HAS FAST PENETRATION SPEED, GOOD FILM COATING AND GOOD FOAMING PROPERTIES.

2、FIBER AND BINDER ARE DISTRIBUTED EVENLY.

3、THE PRODUCT HAS HIGH DRY AND WET STRENGTH AND GOOD TRANSPARENCY.

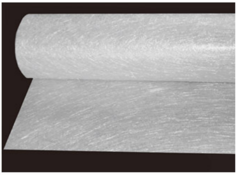
4、THE QUALITY PER UNIT AREA IS UNIFORM, WHICH ENSURES THE GLASS FIBER CONTENT AND MECHANICAL PROPERTIES OF THE PRODUCT ARE STABLE.

COMMON SPECIFICATIONS

E.G：EMC450-1040(P)
AMONG：
E：TYPE IS E-GLASS
450: GRAM WEIGHT IS 450G/M2
1040: GRAM WEIGHT IS 1040MM
P: THE BINDER IS POWDER

Fiberglass Chopped Strand Mat

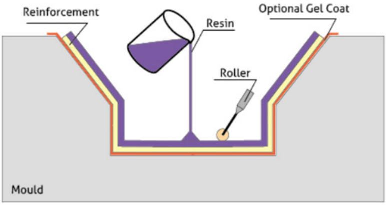
Fiberglass Chopped Strand Mat is made of E/C Chopped Strands, which are randomly distributed and bonded together with polyester binder in powder or emulsion form. The mats are compatible with unsaturated polyester, vinyl ester and other various resins. It's mainly used in hand lay-up, filament winding and compression molding processes. The typical FRP products are panels, tanks, boats, pipes etc.



Production Process

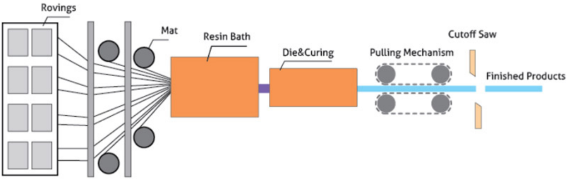
Hand Lay-up Process

The reinforcement,in form of fiberglass strands,mat or woven roving,is first laid into a mold which has been coated with a release agent and a gel coat.Then resin mix is applied by hand using a brush or spray gun.A roller is then used to ensure uniform impregnation,complete glass wet-out,and removal of any trapped air bubbles.This operation is repeated untill the desired thickness of the structure is obtained.After curing at room temperature or under heating conditions,the finished parts are formed.



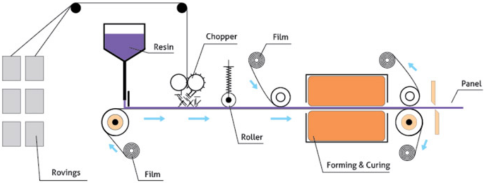
Pultrusion Process

The rovings,mats or other fabrics are pulled throught a resin impregnation bath and then into a heated die using a continous pulling device.The final products are formed under high temperature and high pressure conditions.



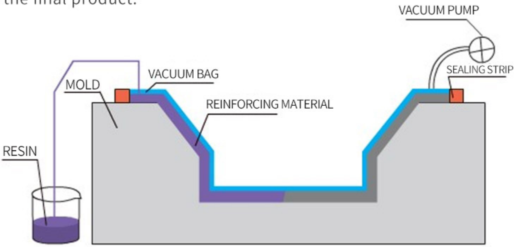
Continuous Panel Molding Process

A resin mix is uniformly deposited in a controlled amount onto a moving film at aconstant speed.The thickness of the resin is controlled by the draw-knife.Fiberglass roving is chopped and uniformly distributed onto the resin.Then a top film is applied forming a sandwich structure.The wet assembly travels through a curing oven to form the composite panel.



Vacuum Forming

Vacuum forming is to spread the reinforcement material into the mold, cover the entire layer with a vacuum bag, and seal the periphery with a sealant, and then suck the resin in a vacuum. The resin completely penetrates the reinforcement material and solidifies to form the final product.



Product Specification

Item	Standard Weight (g/m2)	Width(mm)	Loss On Ignition (%)	Moisture(%)	Compatible Resins
EMC225	225	1040/1270/2080≤3300	2-6	≤0.2	UP VE EP
EMC300	300	1040/1270/2080≤3300	2-6	≤0.2	UP VE EP
EMC380	380	1040/1270/2080≤3300	2-6	≤0.2	UP VE EP
EMC450	450	1040/1270/2080≤3300	2-6	≤0.2	UP VE EP
EMC600	600	1040/1270/2080≤3300	2-6	≤0.2	UP VE EP
EMC900	900	1040/1270/2080≤3300	2-6	≤0.2	UP VE EP

Product Application

Fiberglass Tissue Mat

Fiber Glass Roofing Tissue

Our glass fiber tissue made from E /ECR/C Glass can be classified as surface tissue for pipe, roof tissue,Pipe Tissue ,Flooring Tissue , Carpet Tissue ,Battery Separator tissue ,Coated tissue for gypsum sheathing and Coated Tissue For Polyurethane Foam. Product Unit weight is of 20-120g/m2, Width of 45mm and 50mm or others,Maximum width is 1 meter. Our products can be used in the process of continuous winding, Hand lay-up and pultrusion. Surfacing veil is mainly used in the surfaced layers of FRP products it is divided into winding S-SM series and hand lay-up S-HM series.

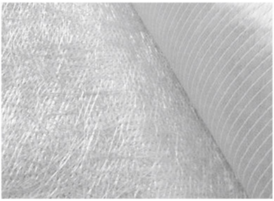
S-SM are mainly used on pipe and tank winding process. it can improve the product surface property on corrosion resistance, compressive strength, seepage resistance, and longer service life. S-HM is chiefly used in the product with complicated geometric curve it has the advantages of good pattern fitness, quick resin.

Product Specification

Product code	Glass type	Unit weight	Binder content	Tensile MD	Moisture Content
ST30	C/E/ECR-GLASS	30g/m2	6.0	≥25	≤0.2
ST50	C/E/ECR-GLASS	50g/m2	6.0	≥40	≤0.2
HT30	C/E/ECR-GLASS	30g/m2	7.0	≥20	≤0.2
HT50	C/E/ECR-GLASS	50g/m2	6.0	≥30	≤0.2

Fiberglass Sitiched Mat

Fiberglass Stitched Mat is made by chopping continuous strands into chopped strands and stitching them together by machine. Which is widely used in new field like wind energy source, etc.



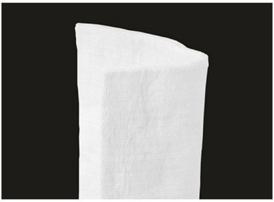
Product Specification

Item	Weight(gram)/m2	Width(mm)
EMK300	300	250-1500
EMK380	380	250-1500
EMK450	450	250-1500

Product Application

Fiberglass Needle Mat

Fiberglass needle mat is a kind of filter material with reasonable structure and good performance. It uses glass fiber as raw material and needles the combed chopped glass fiber felt with thorns. It is a type of inorganic non-woven fiberglass mat which have excellent heat insulation and noise elimination.



Product Specification

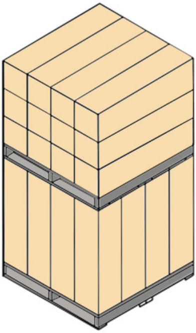
Item	Thickness(mm)	Weight(gram)/m2	Width(mm)	Length(m)	Density(g/m3)
EMN6	6	900	1000-2000	30	90-160
EMN8	8	1200	1000-2000	20	90-160
EMN10	10	1500	1000-2000	20	90-160
EMN12	12	1800	1000-2000	15	90-160
EMN15	15	2250	1000-2000	15	90-160

Product Application

Packing method

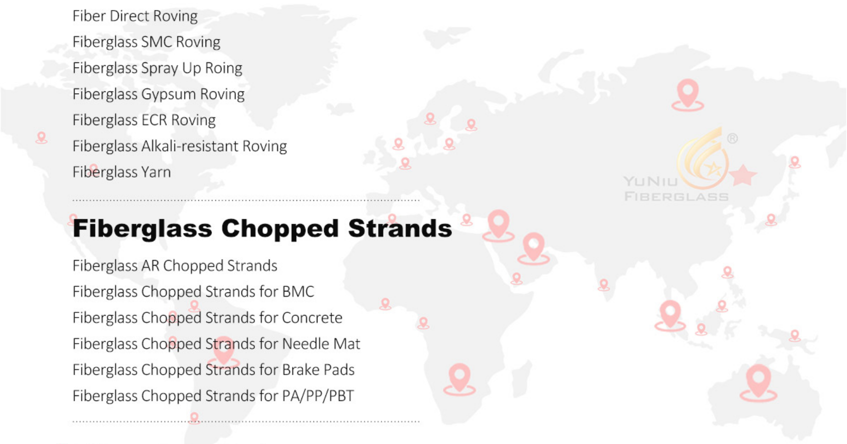
The product can be packed on pallet:

1. Packaging carton size: length 28cm*width 28cm*height 1070mm (width 1040mm), width 1040mm, roll weight 33kg/roll;The width is 1250/1270mm, and each roll is about 40kg.
2. The products are placed vertically or horizontally, and they can be shipped in bulk or palletized when transported in containers.
3. Palletizing method: When palleting, each 16 boxes are placed vertically, and the size of the pallet is: length 112cm*width 112cm*thickness 10cm.
4. Number of containers: 20 ft container is about 10 tons, 40 ft container is about 23 tons.



Application Area

Automobile parts, sanitary ware, chemical anti-corrosion pipelines, cooling towers, storage tanks, ships, building components, furniture and other types of FRP products.



Fiberglass Roving

- Fiber Direct Roving
- Fiberglass SMC Roving
- Fiberglass Spray Up Roing
- Fiberglass Gypsum Roving
- Fiberglass ECR Roving
- Fiberglass Alkali-resistant Roving
- Fiberglass Yarn

Fiberglass Chopped Strands

- Fiberglass AR Chopped Strands
- Fiberglass Chopped Strands for BMC
- Fiberglass Chopped Strands for Concrete
- Fiberglass Chopped Strands for Needle Mat
- Fiberglass Chopped Strands for Brake Pads
- Fiberglass Chopped Strands for PA/PP/PBT

Fiberglass Mat

- Fiberglass Needle Mat
- Fiberglass Stitch Mat
- Fiberglass Chopped Strand Mat
- Fiberglass Tissue Mat

Fiberglass Fabirc

- Plain Weave Cloth
- Fiberglass Adhesive Tape
- Fiberglass Mesh
- Fiberglass Woven Roving
- Fiberglass Multiaxial Fabric

YUNIU®
FIBERGLASS

Hebei Yuniu Fiberglass Manufacturing Co.,Ltd

ADD: ROOM 701, BUILDING A, ZIJINGGUANDI, QIAODONG DISTRICT,
XINGTAI CITY , HEBEI PROVINCE, CHINA 054001

Tel: +86-319-8205333
Fax: +86-319-8202066
E-mail: ynfiber@126.com
Web: www.fiberglassyn.com