

# Techno Fabric™ FGSM

## Fiber Glass Stitch Mat

TECHNOPOL

مقاوم سازی تکنوپل

### PRODUCT DESCRIPTION

Techno Fabric™ FGSM consists of E-glass chopped roving of type fibers and polyester strand, which are woven together by textile machines. The characteristics of fiber glass stitch mat such as tensile strength, heat resistance, Electrical insulation and... is uniform throughout the surface of the mat. Because the reinforcements (glass fibers chopped longitudinally) are uniformly dispersed on the surface. S fiber glass stitch mat are widely used in pultrusion, manual layering, pressure molding, filament winding technologies.



Buildings  
Structures



Transportation  
Infrastructure



Water &  
Wastewater



Oil, Gas &  
Industrial



Waterfront  
Structures



Industrial  
Facilities

### TYPICAL USES

- Wind energy sources
- Tubes
- Tanks
- Auto Parts
- Ships
- FRP boats
- Insulation panels
- Anode tubes
- Auto parts
- Bath tubes

### PACKAGING

Each 35 kg roll of stitch mat needle glass fibers is first placed in plastic bags and then packed in a box according to the customer's order.

### TECHNICAL DATA

specification	Roving(g/m <sup>2</sup> )	Chopped (g/m <sup>2</sup> )	Total weight (g/m <sup>2</sup> )
EMK450/1200	607.60	457.73	1693.58
EMK305/1200	607.60	305.15	1541.00
EMK1200	607.60	—	1235.84
EMK150/1080	607.60	152.58	1256.64
EMK450/800	405.66	457.73	1287.74

### ADVANTAGES

- Electrical insulation
- Low water absorption
- High tensile strength
- The mat is made without using glue.
- It is well impregnated with resin.
- Compatible with most resins.
- Resistance to weather due to the use of polyester thread in the construction of mat
- Low friction

### STORAGE

The products should be stored away from heat and moisture, and in their original packaging. The best conditions are: temperatures between 15 and 35 °C; humidity between 35 and 65 %.

### INSTALLATION PROCEDURE

#### APPLICATION

It is compatible with Polyester, Vinyl and Epoxy resin.



Techno Fabric™ FGSM can be used in technologies such as manual layering, pultrusion, compression molding, hand lay-up processes, filament winding in order to produce desired parts and products.

#### LIMITATIONS

- It may be harmful with skin contact.
- Do not apply in freezing conditions or during precipitation.
- Protect applied materials from rain, freezing, foot traffic and continuous high humidity until completely dry.
- Do not use when air and surface temperatures are below +5°C and above +35°C.
- Avoid heavy traffic for 24 hours.

#### CAUTION

The use of safety glasses and chemically resistant gloves is recommended. Use appropriate clothing to minimize skin contact. The use of NIOSH-approved respirator is required to protect respiratory tract when ventilation is not adequate to limit exposure below the PEL. Refer to Safety Data Sheets (SDS) for detailed information.

#### FAIRST AID

##### *Skin*

Wash fibers off skin with water and soap. If fibers are embedded in the skin, remove with tweezers. Discard clothing that may contain embedded fibers. Seek medical advice if exposure results in adverse effects.

##### *Eyes*

Immediately flush with a continuous water stream for at least 20 minutes. Washing immediately after exposure is expected to be effective in preventing damage to the eyes. Seek medical advice.

##### *Inhalation*

If there is inhalation exposure to the fibers of this product, remove source of exposure and move victim to fresh air. If victim is not breathing, give artificial respiration. If there is breathing difficulty, give oxygen. Seek medical advice for any respiratory problems.

##### *Ingestion*

Ingestion is not a likely means of exposure for this product. If ingestion does occur, do not induce vomiting. Give nothing by mouth if victim is unconscious. Seek medical advice.

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