

Glass Matting

1. DESCRIPTION

Glass matting is made up of E-glass chopped strands. They are held together by an emulsion binder, soluble in styrene, which gives glass matting an excellent compatibility with UP resins.

The basic strand has a sizing system containing a silane coupling system.

2. ADVANTAGES

- Good tensile strength, ease of handling
- Easy impregnation, fast wet-through and de-airing.
- Low resin consumption.
- High mechanical properties of the laminate.
- Good drapability.

3. CHARACTERISTICS

a) CONSTITUENTS:

	Glass Matting
Appearance:	Solid
Form:	Continuous or chopped or mats of fibre made up of continuous, parallel filaments glued together.
Odour:	None, except for some products from which a slightly basic or acid odour is sometimes released when a pallet or carton is opened. This odour never indicates that an eventual toxic product has been released in a dangerous amounts.
Colour:	White or yellowish white
Softening Point (Littleton point):	Approximately 850°C
Melting Point:	Approximately 1200°C
Decomposition Temperature:	Size and mat binders start to decompose at 200°C
Density (molten glass):	2.6g / cu.cm.
Solubility:	Very low solubility in water. Sizes and binders can be partially (and even totally) dissolved in most organic solvents.

Information contained in this document is the result of careful tests carried out objectively. It has been produced to aid the Buyer, but without implying any commitment on our part. The Buyer shall remain responsible for satisfying himself that the products as supplied by us are suitable for his intended purpose. Since we cannot control the application, process, or use of these products, we cannot accept responsibility therefore.

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b) TECHNICAL CHARACTERISTICS :

Weight (g/m ²) ISO 3374: 1990	Loss of ignition (%) ISO 1887 : 1980	Moisture (%) ISO 3344 : 1977	Tensile strength (daN) ISO 3342 : 1987	Solubility in styrene (s) ISO 2558 : 1974
300	4.5		21	60
450	4.0	<0.3	29	60
600	4.0		42	60

c) PRODUCTS AVAILABLE:

Standard weights (g/m ²)	Standard widths (cm)	Roll characteristics		
		Diameter (cm)	Length (m)	Weight (kg)
300	92/125	36	150	41/56
450	92/125	36	110	46/62
600	92/125	36	85	47/64

Upon customer request and without minimum quantities required, Glass Matting can be supplied in other weights (such as 375, 750 and 900 g/m²) lengths and widths (between 15 and 300 cm). A roll is considered to be complete if it measures more than 70% of the nominal length.

4. PACKING

Individual and Bulk Packaging

Each roll is:

- wound on a cardboard tube (internal diameter 101 mm)
- packed in a polythene film.
- Placed in an individual carton, 37 x 37 x 94 x 127 cm

Standard packaging : 9 standard rolls are packed vertically on a pallet, secured by shrink wrap polythene.

Mat width (cm)	Pallet dimensions L x W x H (cm)	Net pallet weight (kg)		
		300 g/m ²	450 g/m ²	600 g/m ²
125	114 x 114 x 146	504	558	576
92	114 x 114 x 114	369	414	423
125	130 x 114 x 89	337	371	382

5. HEALTH & SAFETY

(Refer to Health & Safety Data Sheet)

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6. STORAGE

Glass Matting should be stored dry and in its original packaging. The best conditions are at temperatures between 10 and 35°C and at a relative humidity between 35 and 85%.

If the product is stored at low temperatures (below 15°C), it is advisable to condition the mat in the workshop for at least 24 hours before use, to prevent condensation.

This product must be used within 12 months of delivery. The product can be stacked one plus one, but it is recommended to use a plywood plate between the two pallets in order not to damage the lower pallet.

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