

# UNIFILO® 500 SERIES CONTINUOUS FILAMENT MAT

FOR PULTRUSION



## DESCRIPTION

**Unifilo® 500 Series** mats are made from Advantex® glass continuous filaments of random orientation bonded together with a thermoset binder. Advantex® glass fibers combine electrical and mechanical properties of conventional E-glass with the corrosion resistance of E-CR-glass. These mats are available in a wide product range to optimize performance in wide range of pultrusion applications. Unifilo® 500 series mats are compatible with unsaturated polyester, vinyl ester, epoxy and acrylic resins. Also used in compression moulding of dielectric laminates using unsaturated polyester, vinyl ester or epoxy resins.

## BENEFITS

- **U527:** adapts to complex die shapes with ease preserves a white color in any condition
- **U528:** standard product, good all around characteristics
- **U528X1:** improved version of the standard for great balance between softness, white and good tensile strength
- **U529:** Strong treatment and high binder combined for maximum tensile strength, to survive even the most demanding process

Standard Product	White	More Conformable
U527	↓	↓
U528X1		
U528	↓	↓
U529		

- **Superior corrosion resistance with Advantex® Glass compared to standard E-glass:** Advantex® Glass favors longer service life and strength of part over time in applications facing corrosion. For additional information on Advantex® glass use the link below:

<http://composites.owenscorning.com/aboutAdvantex.aspx>



## APPLICATIONS

500 Series Unifilo® mats are designed to be processed in pultrusion of gratings, ladder rails, frames, insulators, rebars and compression molding of dielectric laminates.



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**AVAILABILITY** – All products are made to order. Additional widths are available upon request.

Nominal Mat Weight (g/m <sup>2</sup> )	Roll Width (cm)
225 – 300 – 450 – 600 – 900	127 – 138

## PACKAGING

Nominal Mat Width (cm)	Roll Diameter (cm)	Rolls Per Pallet	Pallet Size (cm)
3 to 40	55	≥ 12 (to box capacity)	4 boxes on 114 x 114 pallet
40 to 70		12	114 x 114
70 to 105		8	
105 to 210		4	
>210		2 – 8	Wooden Crate

Each roll is wound up on a 101 mm internal diameter cardboard tube and wrapped with a transparent stretch film. Rolls of width > 210 cm are placed inside a polyethylene bag and horizontally positioned inside of a wooden crate. Rolls of width between 40 and 210 cm are positioned vertically on each pallet and fully wrapped in stretch film; depending on roll width, rolls can be stacked on 1 to 3 levels.

Upon customer request, rolls can be slit into widths between 3 and 40 cm (often referred to as “strips”). Such strips are stacked inside cardboard boxes, vertically positioned upon each pallet: in this case number of strips contained in a given box may vary depending on width of slits.

## LABELING

Each roll bears a label detailing the product description, product code, nominal weight, roll width, roll number, date of manufacture, and time of manufacture; in case of “strips”, only one label per cardboard box will be provided.

## STORAGE

Unless otherwise specified, it is recommended to store glass fiber products in a cool, dry area. Ideal conditions are at a temperature between 10°C and 35°C and a relative humidity between 35% and 85%. The glass fiber products must remain in their original packaging material until the point of usage. If the storage temperature is below 15°C, it is recommend that the product be stored in the workshop, within its original packaging, at least 24 hours prior to use to prevent condensation. The packaging is not waterproof. Be sure to protect the product from the weather and other sources of water. When stored properly, there is no known shelf life to the product, but retesting is advised after three years from the initial production date to insure optimum performance.

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