

UNIFILO® 500 SERIES

BRING TAILORED SOLUTIONS TO PULTRUSION

Unifilo® 500 Series continuous filament mat represent a large choice of tailored reinforcement solutions for efficient manufacture of high performance profiles by pultrusion process.

- Produced with patented Advantex® corrosion resistant E-CR glass by Owens Corning.
- Made of continuous filaments randomly-oriented and bonded together with a thermoset binder.

Product Benefits

Customized for multiple needs

- Unifilo® 500 Series mats are available with varying levels of binder to match up with specific customer applications.



Freedom of design and white color

- U527 product easily adapts to complex die shapes and preserves part white color.
- U528X1 product offers a great balance between softness, white color and good tensile strength requirements.

Productivity and high performance

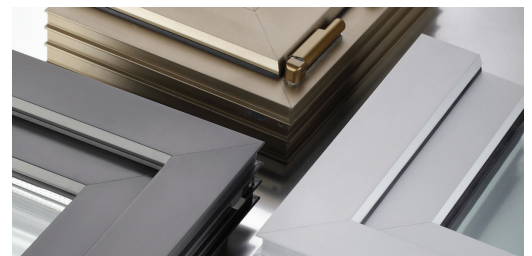
- U528 product is easy to splice and enables excellent processability. It provides very good mechanical and di-electrical properties to molded parts.
- U529 product higher tensile strength fits the requirement for most challenging profiles and fast pultrusion process speed.

Corrosion resistance

- Excellent corrosion resistance with Advantex® Glass compared to standard E-glass: providing longer service life in applications facing corrosion.

Application

UNIFILO® 500 Series mats are compatible with unsaturated polyester, vinyl ester, acrylic and epoxy resins and designed for the reinforcement of pultruded shapes including gratings, ladder rails, frames, insulators. They are also proven to be well suited for compression molding of di-electrical laminates.



Availability

Unifilo® 500 Series mats are available in Europe and Asia-Pacific. U529 is available in North America. All products are made to order. Additional widths are available upon request by your Owens Corning contact.

NOMINAL MAT WEIGHT (G/M ²)	MAT WEIGHT (OZ./SQ.FT.)	ROLL WIDTH (CM)	ROLL WIDTH (IN)
225 - 300 - 450 - 600 - 900	0.75 - 1.0 - 1.5 - 2.0 - 3.0	127 - 138	50 - 54.3

Packaging (Standard Reference)

Each roll is wound on a 103mm internal diameter cardboard tube and wrapped with a transparent stretch film. Upon customer request:

- Paper tube holds printed information allowing 100% traceability once roll is slit
- Rolls can be slit into 3-40cm stripes.

NOMINAL MAT WIDTH (CM)	ROLL DIAMETER	ROLLS PER PALLET	PALLET SIZE (CM)
3 to 40	55	≥12 (to box capacity)	4 boxes on 114 x 114 pallet
40 to 70	55	12	114 x 114
70 to 105	55	8	114 x 114
105 to 210	55	4	114 x 114
>210	55	2 - 8	Wooden Crate

Labeling

Each roll bears a label detailing the product description, product code, real weight, roll width, roll number and date of manufacture; in case of stripes, 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 recommended that the product be stored in the workshop, within its original packaging, at least 24 hours prior to use to help 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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Picture Courtesy of Collodin, CN (window angle).

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