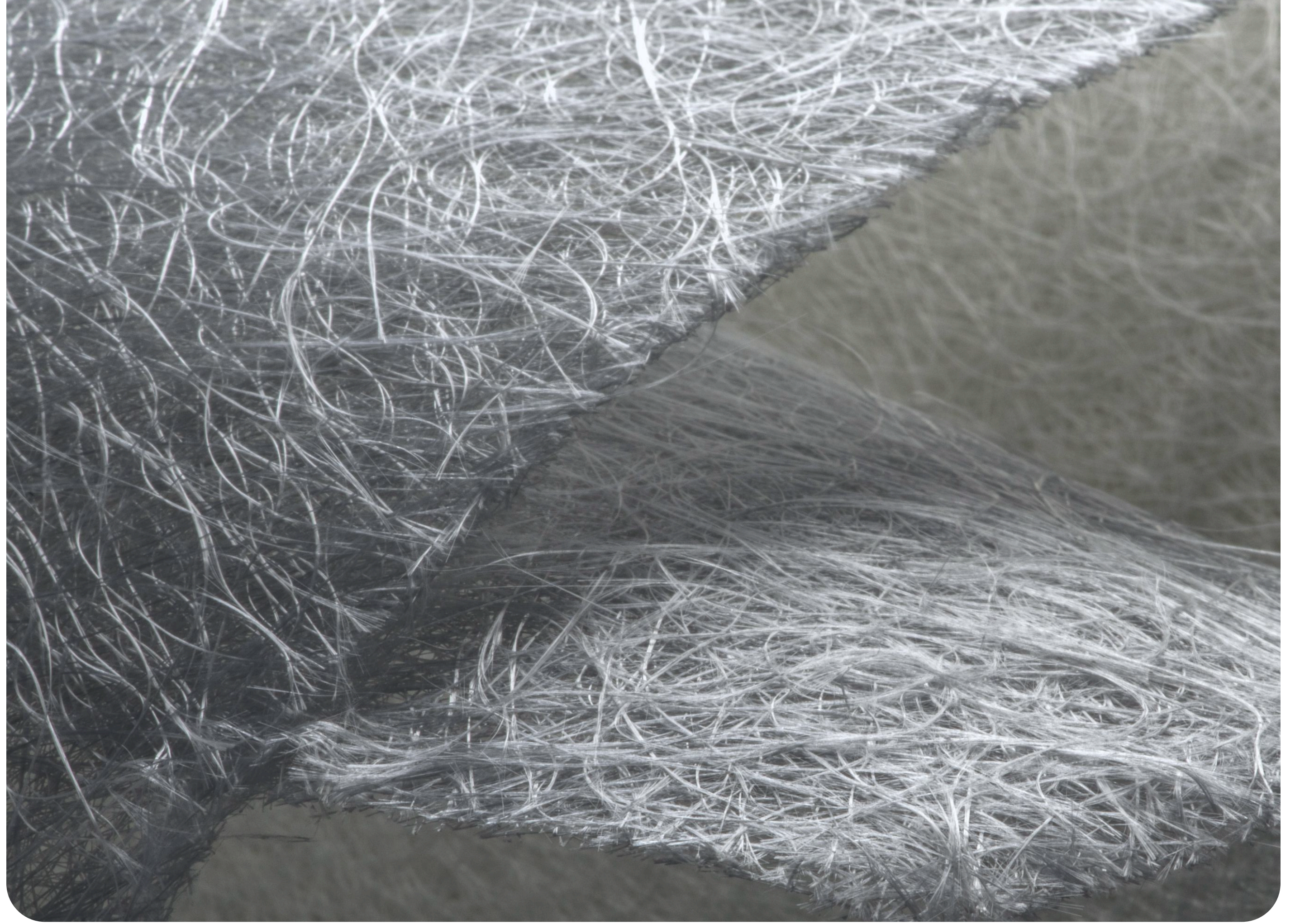


UNIFILO® 500 SERIES

Bring tailored solutions to pultrusion

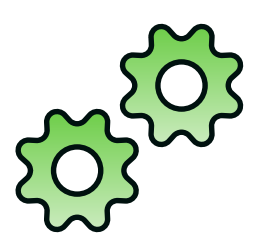


Unifilo® 500 Series continuous filament mat represent a large choice of tailored reinforcement solutions for efficient manufacture of high performance profiles by pultrusion process.

✓ Produced with patented Advantex® corrosion resistant E-CR glass.

✓ 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.



Corrosion Resistance

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

White

Yellow

U527

U528X1

U528

U529

More Conformable

Stiffer



Productivity And High Performance

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

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 dielectric 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 contacting your representative.

NOMINAL MAT WEIGHT (G/M²)	NOMINAL MAT WEIGHT (OZ/FT²)	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

Each roll is wound on a 103 mm 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
- Upon customer’s request, pultrusion Unifilo® rolls may be slit into bands ranging from a minimum of 9 cm to a maximum of 50 cm.

ROLL DIAMETER (CM)	ROLL WIDTH H (CM)	PALLET TYPE	PROTECTION SYSTEM	NUMBER OF ROLLS PER PALLET	PALLET DIMENSIONS L x W x H (CM)
55	50 to 65	Standard (vertical rolls)	Cardboard base and cover. Totally wrapped in a stretch film.	12	114 x 114 x (3H +15)
	66 to 105			8	114 x 114 x (2H +15)
	106 to 205			4	114 x 114 x (H +15)
55	slit widths 9-39 cm	Standard (cardboard rolls)	Fully wrapped in stretch film	4	114 x 114 x (H +15)
55	slit widths 39-50 cm	Standard (mini-rolls)	Fully wrapped in stretch film	12	114 x 114 x (3H +15)
52	>205	Wooden Crate	Fully wrapped in stretch film	4	H x 109 x 124

Labeling

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

Storage

Unless otherwise specified, it is recommended that glass fiber products be stored in a cool, dry area. Recommended long-term storage conditions are temperatures between 10°C and 35°C and relative humidity between 35% and 85%. While temporary deviations may occur during storage or transportation, product performance can be confirmed through routine verification testing if exposure outside these conditions has occurred for an extended period. Glass fiber products should remain in their original packaging until the point of use. To help prevent condensation, keep product in its original, unopened packaging and allow it to naturally acclimate to the workshop temperature for at least 24 hours before opening or use. Packaging is not waterproof and should be protected from weather and other sources of moisture. Although fluctuations may occur during transportation, handling, and temporary storage, products should be maintained within the recommended storage ranges after receipt to help preserve product performance. A defined shelf life has not been established for the product when stored under recommended conditions. However, retesting is recommended after three years from the date of manufacture to help ensure optimum performance.

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