



Unifilo[®] for Pultrusion

U527, U528, U529

PRODUCT DESCRIPTION

Unifilo[®] U528 is an Advantex[®] glass continuous strand mat of random orientation in multiple layers and held together by a binder. The Advantex[®] glass fiber combines the electrical and mechanical properties of traditional E-glass with the acid corrosion resistance of E-CR glass. Used for the manufacture of continuous profiles by pultrusion (compatible with UP, UP(V), EP and acrylic resins). Also used for the hot compression moulding of dielectrical laminates based on UP, UP(V) and EP resins.

PRODUCT REFERENCE

Example : U528 450 -138

U : Continuous strand mat (Unifilo[®])
528 : Product classification code
450 : Nominal weight per unit area (g/m²)



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FEATURES AND PRODUCT BENEFITS

U528	<ul style="list-style-type: none"> • High tensile strength at temperature and in styrene • Easy processing (two faces well bound, easy splicing) • Very good mechanical and dielectrical properties of molded sheets • White color of the mat
U527	<ul style="list-style-type: none"> • Soft version for an easier conformability
U 529	<ul style="list-style-type: none"> • Stiff version for an improved tensile strength

TECHNICAL CHARACTERISTICS (NOMINAL VALUES)

REF.	BASIC SIZE	SOLUBILITY IN STYRENE	LINEAR WEIGHT OF BASIC STRANDS (TEX)	LOSS ON IGNITION (%)	TENSILE STRENGTH (N)*	MOISTURE CONTENT (%)
			Iso 1889	Iso 1887	Iso 3342	Iso 3344
U527	Silane	Very low	25	4.4 4	300 g/m ² : 70 450 g/m ² :100	< 0.15
U528	Silane	Very low	25	6 5.5 4.6 4.2	225 g/m ² : 70 300 g/m ² :100 450 g/m ² :140 600 g/m ² :160	< 0.15
U529	Silane	Very low	25	6.2 5.8	225 g/m ² : 80 300 g/m ² :100	< 0.15

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VISUAL CHARACTERISTICS OR POSSIBLE DEFECTS

- Type A: coarse strands
- Type B: cluster of glass fibre
- Type C: water spots
- Type D: binder spots, dirt and foreign matters (diameter below 30 mm)
- Type E: hole

Maximum number of defects allowed: each 100 lm Unifilo® roll section may contain at most 5 of the above listed defects

PRODUCT AVAILABILITY

ROLL WIDTH (cm)	STANDARD WEIGHTS (g/m ²)	APPROXIMATE DIMENSIONS OF FULL* ROLL, 100 CM WIDE		
		Diameter (cm)	Nominal length (m)	Nominal weight (kg)
100	300	55	260	78
	450	55	170	77
	600	55	130	78

* <full roll>: a roll having a guaranteed length of at least 90% of the value indicated above.
 • Minimum number of full rolls in each delivery: 60 %

Available in widths from 50 to 300 cm.
 Upon customer's request, pultrusion Unifilo® rolls may be slit into widths ranging from a minimum of 9 cm to a maximum of 50 cm. These slits are delivered in cardboard boxes (9 - 39 cm) or as mini-rolls (40 - 50 cm).
 An extra charge will be applied for these slits from 9 to 50 cm.

PACKAGING

- Each roll of Unifilo® is wound up onto a cardboard tube of 0.7 kg/m with 103 mm internal diameter, then individually wrapped with a transparent protective film.
- Pallet type:
 - Rolls ≤ 205 cm width: standard pallet (vertical rolls 14 x 114cm)
 - Rolls > 205 cm width: wooden crate (horizontal rolls).
- Pallet protection:
 - Standard pallet = shrink-wrapped (cardboard base and cover)
 - Wooden crate = each roll packaged in a polyethylene bag.

LABELING

- Each roll carries an information label with product reference.
- Each pallet carries also an information label with: product reference, gross and net weights, the number of rolls on the pallet and their net weight.

STORAGE

Unifilo® mat must be stored in its original packaging in a place with no humidity and heat. The best conditions are temperatures between 15 and 35°C and a relative humidity level between 35 and 85%. If the product is stored at lower temperature (below 15°C), we recommend to condition it inside the workshop for at least 24 hours prior using, to prevent condensation.

On site stacking of pallets is possible on (1/1) only. Please use a plywood plank between the two pallets to avoid damage the lower pallet.

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