

WOVEN ROVING REINFORCEMENT FOR THERMOSETTING RESINS

Reinforcements Europe

WOVEN REINFORCEMENTS

Technical data sheet

Woven reinforcements are made of E-glass strands, roving, direct roving and/or spun roving coated with a size designed to allow processing when they are woven and to make them directly compatible with general purpose resin (polyester, vinylester, epoxidic and phenolic). In some specific cases there can be a texturised or voluminised yarn used in weft as well.

They are used for different mould processes such as: hand lay-up, injection and low press moulding, winding pultrusion and continuous impregnation.

Identification

Example : **RT 270 1546 (bidirectional)**
 R : bidirectional woven reinforcement
 V : bidirectional woven reinforcement with voluminised or texturised material in weft
 T : Weave T = plain
 C = twill
 S = satin
 270 : approximate weight (g/m^2)
 1546 : products characteristics (selvedge type, packaging ...)

Example : **UC 800 0001 (unidirectional)**
 U : unidirectional woven reinforcement
 C : C = warp (D = weft)
 800 : approximate weight (g/m^2)
 0001 : product characteristics (selvedge type, packaging ...)

Technical characteristics (nominal values)

Weight (g/m^2)	Loss on ignition (%)	Moisture (%)
ISO 3374: 2000	ISO 1887: 1995	ISO 3344: 1997
Nominal value $\pm 8\%$	$\geq 1,00\%$	$< 0, 20\%$

Weight and LOI values depend on nominal values for warp and weft inputs.

Refer to the Product Customer Acceptance Standard and Product Datasheets to obtain necessary information on the characteristics of the particular product.

Properties

- Compatibility with general purpose resins
- Excellent processing characteristics:
 - Dimensional stability
 - Shape adaptation
 - Easy impregnation
 - Good translucency
- Excellent mechanical properties



Woven roving



Tanks

Products available (standard ref.)

- **Standard widths:**
The standard product range is available directly in the 100 – 120 – 125 – 130 cm width, although other widths can be supplied quickly and easily.
Widths can be produced within the following limits:
 - fabrics : from 40 to 305 cm, the most common being 100 – 130,
 - bands : from 8 to 40 cm,

The selvages of fabrics and strips are bordered by lateral fringes 10 to 20 mm length. The width indicated does not include these fringes, nominal width is determined by the distance between the first and the last yarn of the warp.
- **Special products to order:**
A very wide range of weights and widths with different weaves can normally be supplied.
Requests for non-standard products are accepted subject to feasibility studies, minimum quantities and longer delivery time.

Packaging

- **Individual packaging :**
Each roll is protected by an external plastic film. Bands are wrapped in a plastic bag.
- **Bulk packaging:**
Depending on the roll width or diameter, woven reinforcements are either packed in one or several layers on the palette (pyramid or stack shape or cardboard box) or into a wooden rack.
Palettes, racks and cardboard boxes are not to be stacked.

Storage

Woven reinforcements should be kept in their original packaging and stored in a sheltered area. The optimal conditions are: a temperature of between 10 and 35°C, and a relative humidity level of between 35% and 85%.

SG Vetrotex Disclaimer

It is the customer's responsibility to satisfy himself that the Product is suitable for its intended use, taking into account the other components used and the fabrication process. SG Vetrotex commercial service is willing to give advice to the customer about the Product, subject to the customer acknowledging that SG Vetrotex will not be held liable for the advice in any way whatsoever. If it is established that the Product is unsuitable for its intended use and the customer has, nonetheless, continued to use the Product for that use, he does so at his own risk. SG Vetrotex will not accept any claim notified more than 6 months after sale of the Product. In any event, SG Vetrotex's liability is limited to the price of the Products and SG Vetrotex does not accept liability for any indirect or consequential loss or loss of profit. SG Vetrotex does not limit its liability for death or personal injury caused by its negligence.

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For further information our web site: www.vetrotexeurope.com

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