

# Substrates – Woven Fabrics

T E N R O N<sup>®</sup>

## Product description

Woven fabrics made of TENRON continuous filament for engineered substrates and high-performance composites.



## Article reference

**WF (Woven Fabric), EX.:**

**WF BSB3\_210.100.1,27.T2/2.14/14.IS65T**

- Specific surface weight (gr/m<sup>2</sup>) \_\_\_\_\_
- Length of roll (m) \_\_\_\_\_
- Width of roll (m) \_\_\_\_\_
- Weaving pattern \_\_\_\_\_
- Number of ends per cm in warp and weft \_\_\_\_\_
- Sizing reference of constituent filaments (\*) \_\_\_\_\_

## Physical properties

**Volume density of constituent fibres  
(according to ASTM C693)**

2.600 g/cm<sup>3</sup>

**Specific surface weight**

From 210 up to 1.050 g/m<sup>2</sup>

**Construction (weaving pattern)**

Plain, twill, satin

## Thermal properties (according to DIN ISO 7884)

**Melting point**

1.560 °C

**Transition temperature**

730 °C

**Softening point**

940 °C

## Thermal resistance (% of residual values after 24 h ageing)

From -200°C up to 850°C

## Sizing

**Content, % weight (loss of ignition, LOI)**

0,4 – 1,5 % (according to customer's request)

**Moisture content, % weight**

Less than 0,1 %

**Resin (matrix) compatibility**

Epoxy, polyester, vinylester, PA, PP, PEEK, BMI, etc..

## Mechanical properties

**Sized and dried roving**

**(according to ISO 3341:2000)**

- Tensile strength: 66 ... 80 cN/tex  
(depending on the sizing formulation):  
1.580 ... 2.000 MPa
- Elongation at break: 2,10%
- Tensile modulus (Young or E-modulus):  
90 ... 100 Gpa

**Impregnated strand (according to ASTM  
D2343 or ISO 9163:2005)**

- Tensile strength: 3.400 ... 3.600 MPa
- Tensile modulus (Young or E-modulus):  
86 ... 97 GPa

## Standard Packaging

The rolls are individually labeled and wrapped with stretched plastic film for protection and improved handling.

### Width (m)

1,27 cm

### Length (m)

Full package is about 100m/ roll

## Benefits of TENRON in end-applications

Please see our website, under “applications”.

## Storage and usage conditions

ISOMATEX S.A. recommends storage in a cool and dry warehouse into the original packaging. For an optimal processing we recommend to use the product in ambient conditions (20 – 23 °C, 60 – 65% relative humidity). TENRON roving need to be kept in the workshop at least 24 hours prior to usage.

## Sustainability

- ISOMATEX S.A. respects the environmental directives of the **European Union** and is **REACH compliant** (Regulation, Evaluation, Authorisation and Restriction of Chemicals) .
- TENRON is fully and easily recyclable. For more information on **sustainability** and our **LCA**, please see our website and / or contact us.

For more detailed information, please contact the Isomatex Sales Department at [info@isomatex.com](mailto:info@isomatex.com) or by phone at the following number: **+32 (0)81.72.86.86**

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