TECHNICAL DATASHEET

Fibres – Conventional Yarns SE / ME

TENRON®

Product description

Conventional yarns are twisted strands of continuous filaments. The constituted roving are treated with a sizing, which allows an easy downstream treatment, and which is in compliance with the final application.

Article reference

Multi-End Conventional Yarn, EX.: **MECY BSB3 320-100(10) Z30 IS65T CS03E**

- Yarn type
- Batch composition's reference
- Nominal linear density in TEX (gr/km) from 100 up to 1000
- Nominal linear density in TEX of constituent SE roving (from 110 up to 220)
- Diameter of virgin (elementary) filaments (9; 10; 11µm.)
- Twist direction (Z or S) with the number of twists per meter
- Sizing reference(*)
- Cardboard sleeve with felt surface or milk bottle for external unwinding only

Thermal properties (according to DIN ISO 7884)

Melting point
1.560 °C

Transition temperature
730 °C

Softening point
940 °C

Physical properties

Volume density (according to ASTM C693)
2.600 g/cm³

Poisson ratio
0,24

Mechanical properties

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

- Tensile strength: 3.400 ... 3600 Mpa
- Elongation at break: 3,5 ... 4,5%
- Tensile modulus (Young or E-modulus): 86 ... 97 GPa

Sizing

Content, % weight (loss of ignition, LOI)
0,4 – 1,0 % (according to customer's request)

Moisture content, % weight
Less than 0,1 %

Resin (matrix) compatibility
Epoxy, polyester, vinylester, PA, PP, PEEK, BMI, etc..

(*) *see Isomatex Sales department for more information*

Standard Packaging

The standard packaging of twisted yarns includes cylindrical bobbins which are individually labelled and wrapped with stretched plastic film for protection and improved handling.

Inner diameter of carboard sleeves (mm)

93mm

Height (mm)

290mm

Weight (kg)

Commercially available bobbins have a nominal weight up to 10kg.

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** or by phone at the following number: **+32 (0)81.72.86.86**

DISCLAIMER OF LIABILITY

The data presented above is provided solely as a guide in the selection of fibre reinforcement. The information mentioned in this leaflet is based on actual ISOMATEX laboratory data and field test experience. Due to numerous factors in downstream processability that may affect results, we consider this information reliable but do not guarantee its applicability to the user's process or assume any liability arising from its use or performance. The end-user, by accepting the products described herein, assumes the responsibility for thoroughly testing any application to determine its compliance before committing to production. It is important for the end-user to determine the properties of their own commercial compounds when using this or any other fibre reinforcement.

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