



CBF Roving

Technical Data Sheet

Product description:

CBF roving is a complex thread of straight-directed CBF monofilaments, wound on a special spool for external unwinding.

Storage and usage conditions:

UBT 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, 55 - 65% Relative Humidity).

Linear density (TEX) Single-End Direct roving available:

22 TEX	- Ø 5-7 µm diameter of CBF monofilament.
32 TEX	- Ø 7-9 µm diameter of CBF monofilament.
<u>Tex range of 33 - 150 Tex and bigger might be produced on customer's request.</u>	

Sizing:

Engineered for high-end structural or high thermal resistance applications and compliant to different organic or ceramic matrix.

Moisture content, % weight:	less than 0,4 %
Resin (matrix) compatibility:	epoxy, polyester, vinyl ester, PA, PP, PEEK, BMI, ...etc.

Physical and Mechanical properties:

Volume density (ASTM C693):	2,57 gr/cm ³
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Sized and dried roving, according to ISO 3341:2000 (depending on the sizing formulation):

Breaking force in relation of fineness:	60-90 cN/Tex
Breaking stress:	1700-2050 MPa
Elongation at break, yarn/fibers:	1,67/2.44 %
E-modulus:	70-100 GPa

Thermal properties (according to DIN ISO 7884):

Melting point:	1550 °C
Softening point:	950 °C
Operating long-term thermal range:	from -260°C up to 850°C

Packing Statistics

External Payout Spool Height:	250-320mm
External Payout Spool Inner Diameter:	76-80 mm
Wrapping:	Thermo Retractable Film

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