UMATEX™ Group

ROSATOM
STATE CORPORATION

Carbon Fiber

Technical Datasheet

UMT450-12K-EP

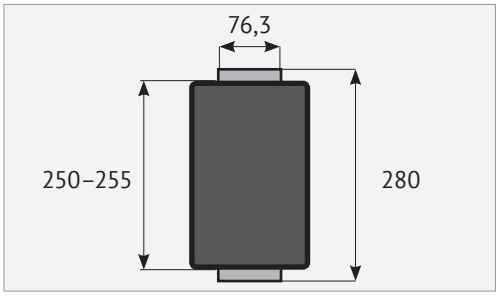
Carbon fibre produced from polyacrylonitrile precursor. It features high tensile modulus so it can be used in various industrial applications including certain specific applications for high modulus fibre.

Typical Carbon Fiber Properties

Tensile strength	4.2 GPa
Tensile modulus	450 GPa
Elongation at break	0.9 %
Linear density	680 tex
Density	1.85 g/cm^3
Carbon content	More than 95 %
Sizing[1]	EP
Sizing content[2]	1.0–1.5 %

Bobbin Properties

Bobbin weight[3]	1 kg
Length of fiber on bobbin	1500 m
Bobbin diameter with coiled fiber	250–255 mm
Height of fiber on bobbin	120 mm
Spool height	280 mm
Spool diameter	76.3 mm



[1] CF can be produced with VE finish (compatible with vinyl ester resins).
[2] The sizing content (from 0.5%) and type can be varied based on customer's request.
[3] 0.5 kg, 1.5 kg, 2 kg bobbins are available on request (may affect the price depending on the volume of the non-standard package batch).

Packaging

Carbon fiber is wound untwisted onto cardboard spool, sealed with heat shrunk PE or PVC foil and placed in cardboard box.

Certification

The products are produced in full compliance with ISO 9001-certified Quality Management System.

UMATEX Group (NPK Khimprominzhiniring, JSC), Bldg. 13, 42 Volgogradskiy prospekt, Moscow, 109316, Russia.
+7 (495) 777 0 123, info@umatex.com, www.umatex.com

February 2018