

## Technical Datasheet

# UMT49-12K-EP

High strength and standard tensile modulus continuous carbon fibre based on polyacrylonitrile precursor used in various branches of industry.

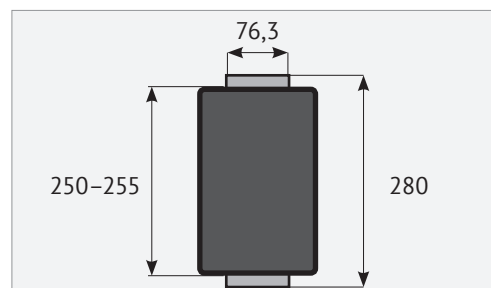
### Typical Carbon Fiber Properties

Tensile strength	4.9 GPa
Tensile modulus	260 GPa
Elongation at break	1.8 %
Linear density	760 tex
Density	1.78 g/cm <sup>3</sup>
Carbon content	More than 95 %
Sizing <sup>1</sup>	EP
Sizing content <sup>2</sup>	0.8–1.5 %



### Bobbin Properties

Bobbin weight <sup>3</sup>	4 kg
Length of fiber on bobbin	5130 m
Bobbin diameter with coiled fiber	250–255 mm
Height of fiber on bobbin	160 mm
Spool height	280 mm
Spool diameter	76.3 mm



<sup>1</sup> CF can be produced with VE finish (compatible with vinyl ester resins).

<sup>2</sup> The sizing content (from 0.5%) and type can be varied based on customer's request.

<sup>3</sup> 1 kg, 2 kg, 5–7 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.