

## Technical Datasheet

### UMT450-12K-EP

UMT450-12K-EP is a polyacriilonitrile (PAN) based carbon fiber. UMT450-12K-EP has high modulus which allows the Customer using in many industrial composite applications, including special fields of application high modulus carbon fiber.

#### Typical Carbon Fiber Properties

Tensile Strength	4.4 ГПа
Tensile Modulus	450 ГПа
Elongation at break	0.9 %
Density	1.85 г/см <sup>3</sup>
Carbon Content	>99 %
Linear density	680 текс

#### Sizing

UMT450-12K-EP sizing is compatible with epoxy resin systems. Typical sizing content is between 1.0-1.5%\*.

\* - The sizing content (from 0.5 %) and type can be varied based on customer's request.

#### Packaging

UMT450-12K-EP is wound without twist on a 76.3 mm x 280 mm (3" x 11") cardboard spool, sealed with heat shrunk PE or PVC foil and placed in cardboard box.

Typical Parameter	Value	
Fiber count	12 000	0.5 kg, 1.5 kg, 2 kg spools are available on request (may influence the price depending on the volume of the non-standard package batch)
Spool length (m)	1 400	
Spool weight (kg)	1	

#### Certification

The goods are produced under control of a QA/QC system certified against the requirements of the ISO 9001 standard.

#### Safety

Material Safety Data Sheet (MSDS) is presented with the first shipment. Please read it before the use of our products.