

## Technical Datasheet

### UMT45-12K-EP

UMT45-12K-EP is a polyacriolonitrile (PAN) based carbon fiber. UMT45-12K-EP has standard modulus and high strength which allows the Customer using in many industrial composite applications.

#### Typical Carbon Fiber Properties

Tensile Strength	4.5 GPa
Tensile Modulus	260 GPa
Elongation at break	1.7 %
Density	1.78 g/cm <sup>3</sup>
Carbon content	>95 %
Linear density (12K)	790 Tex

#### Sizing

UMT45-12K-EP sizing is compatible with epoxy resin systems. Typical sizing content is between 1.0-1.7%\*.

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

#### Packaging

UMT45-12K-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	1kg, 2kg, 5-7kg spools are available on request (may influence the price depending on the volume of the non-standard package batch)
Fiber count (K)	12 000	
Spool length (m)	5 000	
Spool weight (kg)	4	

#### 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.