

Technical Datasheet

ZOLTEK™ PX35 Continuous Tow

Commercial Carbon Fiber for Industrial Applications

DESCRIPTION

ZOLTEK PX35 continuous carbon fiber is manufactured from polyacrylonitrile (PAN) precursor. The consistency in yield and mechanical properties that are provided by large filament count strands gives the user the ability to design and manufacture composite materials with greater confidence and allows for efficient and fast buildup of carbon fiber reinforced composite structures.

ZOLTEK PX35 50K fibers are available with a variety of sizing formats for different composite processing methods and for compatibility with a wide range of standard resin systems. ZOLTEK quality focuses on spool to spool consistency yielding low coefficients of variation.



APPLICATIONS

Wind energy, automotive, petroleum production, aviation, marine, industrial, other transportation, medical (including X-ray), sports and recreation, etc.

RECOMMENDED USE

Any article or component benefiting from the unique properties of carbon fiber composites.

| MATERIAL OVERVIEW | SI | US |
|------------------------|-------------------|--------------------------|
| Tensile Strength | 4,137 MPa | 600 ksi |
| Tensile Modulus | 242 GPa | 35 msi |
| Elongation | 1.5% | 1.5% |
| Electrical Resistivity | 0.00155 ohm-cm | 0.00061 ohm-in |
| Density | 1.81 g/cc | 0.065 lb/in ³ |
| Fiber Diameter | 7.2 microns | 0.283 mils |
| Carbon Content | 95% | 95% |
| Yield | 267 m/kg | 397 ft/lb |
| Textile Units | 267 m/kg | 33700 denier |
| Spool Weight | 5.5 kg, 11 kg | 12 lb, 24 lb |
| Spool Length | 1,500 m , 3,000 m | 1,640 yd, 3,280 yd |

The properties listed in this datasheet do not constitute any warranty or guarantee of values. This information should only be used for the purposes of material selection. Please contact us for more details.

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TYPICAL PACKAGING

Wound on a 3" x 11" (7.6 cm x 28 cm) cardboard spool, sealed in heat shrunk covering, and placed in cardboard box; two splices are permitted per every 1,500m spool and five per every 3,000m spool.

Spool outside diameter:

- » 1,500 m: 180-185 mm x 255-260 mm
- » 3,000 m: 235-245 mm x 255-260 mm

APPROVAL

DNV-GL has granted approval to ZOLTEK PX35 Continuous Tow for use in wind energy applications.



DNV·GL

Approval No. WP 1030012 HH

CERTIFICATION

ZOLTEK PX35 Continuous Tow is manufactured in accordance with ZOLTEK's written and published data. A Certificate of Conformance is provided with each shipment.

SAFETY

Obtain, read, and understand the Material Safety Data Sheet (SDS) before use of this or any other ZOLTEK product.

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