

PANEX[®] 35 CONTINUOUS TOW

COMMERCIAL CARBON FIBER FOR INDUSTRIAL APPLICATIONS

PANEX[®] 35 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. PANEX[®] 35 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.

Panex[®] 35 Typical Properties*

	English Units	SI Units
Tensile Strength	600 Ksi	4137 Mpa
Tensile Modulus	35 Msi	242 GPa
Electrical Resistivity	0.00061 ohm-in	0.00155 ohm-cm
Density	0.065 lb/in ³	1.81 g/cc
Fiber Diameter	0.283 mils	7.2 microns
Carbon Content	95%	95%
Yield	400 ft/lb	270 m/kg
Spool Weight	12 lb	5.5 kg
Spool Length	1640 yd, 3280 yd	1500 m, 3000 m

* fiber properties generated using ASTM standard methods

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; up to two splices are allowed in 1500 m spools, up to five splices in 3000 m spools.
Certification	Panex [®] 35 Continuous Tow is manufactured in accordance with Zoltek's written and published data. A Certificate of Conformance is provided with each shipment.
Approval	Germanischer Lloyd (GL) has granted GL approval to Panex [®] 35 Continuous Tow is approved for use in wind energy applications.
Safety	Obtain, read, and understand the Material Safety Data Sheet (MSDS) before use of this or any other Zoltek product.