

THERMOPLASTIC COMPOUNDING

Zoltek offers chopped, milled, and continuous fibers for both general and high-temperature engineering thermoplastics. Our portfolio of sizings are compatible with Nylons, Polycarbonates, and various high-temperature thermoplastics.



- Increased conductivity and static dissipation*
- Improved dimensional stability and mechanical properties*
- High strength-to-weight and stiffness-to-weight ratios*
- Greater thermal stability*

Chopped Fiber: Zoltek’s chopped products distribute easily during compounding, resulting in improved processing and end product performance. Our fiber is compatible with general engineering and high-temperature thermoplastic resins and is available in pellet, flake, and stick form.

Sizing Chemistry	Polyurethane
Sizing Content	2.75% by weight
Moisture Content	0.20% maximum
Unpacked Bulk Density (minimum)	425 g/L (26.5 lb/ft ³)
Fiber Length (nominal)	6mm (0.25 in.)

*fiber properties generated using ATSM standard methods

Milled Fiber: Zoltek’s milled fibers are specifically processed for lower cost applications. All Zoltek milled products are free of any sizings. Zoltek’s in-house milling system ensures product quality and traceability from raw material through finished product.

	Panex® 35	Panex® 30
Carbon Content	95%	99%
Electrical Resistivity	0.00155 ohm-cm	0.0014 ohm-cm
Density	1.81 g/cc	1.75 g/cc
Bulk Density	440 g/L	440 g/L
Fiber Diameter	7.2 μm	7.2 μm
Std. Mean Length	150 - 200 μm	150 - 200 μm
Filament Shape	Round	

The Zoltek Advantage:

- 1. Rapid Capacity Expansion**
- 2. Price Stability**
- 3. Lowest Capex in the Industry**
- 4. Application Assistance**

ABOUT ZOLTEK

Energy Technology is the next great global industry. But it cannot evolve without carbon fiber.

Zoltek is on a mission to lead the commercialization of carbon fiber and to drive new energy forward through advanced technology and expanded capacity.

Today Zoltek products are increasing the energy output of wind turbines, creating more fuel efficient vehicles, enhancing energy storage and lifting other industries to unheard of levels of performance.

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