

# ZOLTEK™ PX35 CHOPPED FIBER (TYPE-48)

## DESCRIPTION

ZOLTEK's Type-48 chopped fibers provide excellent mechanical and electrical properties for reinforcement in thermoplastic molding compounds requiring high strength and modulus, low density, electrical conductivity, dimensional stability, low thermal expansion and excellent friction/wear properties.

## APPLICATIONS

Injection molding of articles for use as components in applications requiring static dissipation and/or EMI shielding. Such articles include electronic devices, dust handling equipment, and notebook computer enclosures.

## RECOMMENDED USE

PBT/PET, PA (nylon)



TYPICAL PROPERTIES	NYLON (PA66)		MPP0		Method
	SI	US	SI	US	
Carbon Fiber Loading	30%		10%		-
Tensile Strength	240 MPa	35 ksi	90 MPa	13 ksi	ASTM D638
Tensile Modulus	21 GPa	3.0 msi	15 GPa	2.1 msi	ASTM D638
Elongation	1.90%		1.20%		ASTM D640
Flexural Strength	350 MPa	51 ksi	150 MPa	21 ksi	ASTM D790
Flexural Modulus	17 GPa	2.5 msi	10 GPa	1.5 msi	ASTM D790
Izod Impact - Notched	80 J/m	1.5 ft-lb/in	74 J/m	1.4 ft-lb/in	ASTM D256
Izod Impact - Unnotched	680 J/m	13 ft-lb/in	280 J/m	5.2 ft-lb/in	ASTM D4812

*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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MATERIAL OVERVIEW	SI	US
Sizing Chemistry	Polyester	
Sizing Content	7.5% by weight	
Moisture Content	0.30% maximum	
Compression Ratio	0.50 minimum	
Unpacked Bulk Density (minimum)	200 g/L	12.5 lb/ft <sup>3</sup>
Fiber Length (nominal)	8 mm	0.33 in

*\*Fiber properties generated using ASTM standard methods.*

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## TYPICAL PACKAGING

- Each pallet contains 45 boxes and has a net weight of 900 kg (1,984 lb).
- Each box is 14.5" x 14.5" x 14.5" (36.8 cm x 36.8 cm x 36.8 cm) and contains 20 kg (44.1 lb) of chopped fiber in a polyethylene bag.
- Chopped fiber is also available in 227 kg (500 lb) super sacks.

## CERTIFICATION

ZOLTEK PX35 Chopped Fiber 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.