

For Engineering Thermoplastics

### DESCRIPTION

ZOLTEK's PX35 Type-48 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)

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*

TYPICAL PROPERTIES	NYLON (PA66)		mPPO		METHOD
	SI	US	SI	US	
Carbon Fiber Loading	30%		10%		—
Tensile Strength	240 MPa	35 ksi	90MPa	13ksi	ASTM D638
Tensile Modulus	21 GPa	3.0 msi	15 GPa	2.1 msi	ASTM D639
Elongation	1.90%		1.20%		ASTMD640
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 D791
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.*

### TYPICAL PACKAGING

- Each pallet contains 45 boxes and has a net weight of 1,800 lb (816 kg).
- Each box is 14.5" x 14.5" x 14.5" (36.8 cm x 36.8 cm x 36.8 cm) and contains 40 lbs (18.1 kg) of chopped fiber in a polyethylene bag.
- Chopped fiber is also available in 500 lb (227 kg) 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.