

ZOLTEK™ PX35 CHOPPED FIBER (TYPE-52)

DESCRIPTION

ZOLTEK’s Type-52 chopped fiber format has the following characteristics:

- Stiff chopped strands which allows for clean and consistent flow rates
- Maintains its integrity from the package, into, and through the hopper
- Distributes easily during compounding, improving process and product performance
- Excellent mechanical and electrical properties:
 - High strength and modulus
 - Low density
 - Electrical conductivity
 - Dimensional stability
 - Low thermal expansion
 - Excellent friction/wear properties



APPLICATIONS

- RFI/EMI shielding of electronic devices
- Wear-resistance of structural/mechanical parts
- Weight reduction and dimensional stability in automotive components

RECOMMENDED USE

Engineering Thermoplastics (ETP): Polyolefins, such as PE and PP

| TYPICAL PROPERTIES | | | |
|-------------------------|----------|---------------|-----------|
| | SI | US | Method |
| Carbon Fiber Loading | 30% | | - |
| Tensile Strength | 129 MPa | 18.7 ksi | ASTM D638 |
| Tensile Modulus | 13.6 GPa | 1.96 msi | ASTM D638 |
| Elongation | 3% | | ASTM D638 |
| Flexural Strength | 174 MPa | 25.2 ksi | ASTM D790 |
| Flexural Modulus | 15 GPa | 2.18 msi | ASTM D790 |
| Izod Impact - Notched | 67 J/m | 1.14 ft-lb/in | ASTM D256 |
| Izod Impact - Unnotched | 499 J/m | 8.45 ft-lb/in | ASTM D256 |

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 Content | 1.0% by weight | |
| Moisture Content | 0.20% maximum | |
| Unpacked Bulk Density (minimum) | 300 g/L | 18.7 lb/ft ³ |
| Fiber Length (nominal) | 6 mm | 0.25 inch |

**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.