

## DESCRIPTION

ZOLTEK's newly-developed Type-95 chop fiber format has the following characteristics:

- High bulk density values which allows for cleaner and more 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



## RECOMMENDED USE

Polyamides

## APPLICATIONS

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

| MATERIAL OVERVIEW               | SI              | US                       |
|---------------------------------|-----------------|--------------------------|
| Sizing Content                  | 2.75% by weight |                          |
| Moisture Content                | 0.20% maximum   |                          |
| Unpacked Bulk Density (minimum) | 350 g/L         | 21.85 lb/ft <sup>3</sup> |
| Fiber Length (nominal)          | 6 mm            | 0.25 in                  |

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

*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 PROPERTIES               | NYLON (PA66)          |                            | NYLON (PA6)           |                            |
|----------------------------------|-----------------------|----------------------------|-----------------------|----------------------------|
|                                  | SI                    | US                         | SI                    | US                         |
| Carbon Fiber Loading             | 30%                   |                            |                       |                            |
| Tensile Strength                 | 274 MPa               | 39.74 ksi                  | 261 MPa               | 37.85 ksi                  |
| Tensile Elongation at Break      | 2.0%                  |                            | 1.9%                  |                            |
| Flexural Strength                | 372 MPa               | 53.95 ksi                  | 372 MPa               | 53.95 ksi                  |
| Flexural Modulus                 | 19.6 GPa              | 2.89 msi                   | 20 GPa                | 2.96 msi                   |
| Charpy Impact Strength (V-Notch) | 8.0 kJ/m <sup>2</sup> | 3.80 ft-lb/in <sup>2</sup> | 9.0 kJ/m <sup>2</sup> | 4.28 ft-lb/in <sup>2</sup> |

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### 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.