

# SLS FS3400GF Fiberglass

Material Introduction



#### Introduction

Glass bead-filled polyamide 12 powder with a combination of excellent rigidity and good elongation at break.

## **Advantages**

High temperature resistance, stable dimensional, toughness, insulation, good corrosion resistance and high mechanical strength.

## Disadvantage

The surface is grainy and the color of the product is greatly affected by the material and temperature.

#### **Tolerance**

200µm or 0.2%

#### Recommendation

Glass fiber has higher heat distortion temperature and better strength than nylon material. We recommend using this material for structural verification of product prototypes.

### Attention >

The material has a grainy surface and with unstable color.

#### **Attributes**

Heat deflection temperature (0.45 MPa) (GB/T 1040.2-2006) : 160 °C

Heat deflection temperature (1.8 MPa) (GB/T 1040.2-2006) : 85 °C

melting point: 184 °C



Tensile strength (GB/T 1040.2): 44 MPa

Tensile modulus (GB/T 1040.2): 3500 MPa

Elongation at break (GB/T 1040.2) : 5%

Flexural Strength (GB/T 1040.2): 65 MPa

Flexural Modulus (GB/T 1040.2): 2400 MPa

Notch impact strength (GB/T 1843) : 4.13 KJ/m<sup>2</sup>

Non-Notch Impact Strength (GB/T 1843): 19.28 KJ/m<sup>2</sup>

Dielectric constant 60 Hz: 3.7

## **Applications**

> Structural verification of auto parts and their supplies
Such as car bezels, rearview mirrors, dashboards, steering wheels, lights, seats, handles, etc.

➤ Structural verification of household appliances and their supplies

Such as air conditioners, air purifiers, ironing machines, electric fans, vacuum cleaners, water dispensers, soybean milk machines, juicers, hairdryers, electric toothbrushes

> Structural verification of mechanical and electrical equipment and their supplies

Such as industrial display panels, cameras, experimental instruments, power tools, sockets, electrical instruments, measuring tools, switches, etc.