

TECHNICAL DATA



# PG30GF-PETG<sup>+30%GF</sup>

P r o d u c t   D e m o n s t r a t i o n



## ■ Material Overview

PG30GF it is a kind of glass fiber reinforced PETG particle (the mass percentage of glass fiber is 30%), which has excellent printability, warpage resistance and weatherability, and is specially designed for large-area additive manufacturing (BAAM). PG30GF is an optimal choice for 3D printing and injection molding due to their superior strength and durability. Their resistance to heat, pressure and chemical reaction makes them an excellent choice for a wide range of applications.

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## ■ Main Feature

- Outstanding hot forming performance
- High Toughness
- Weathering resistance
- Easy processing
- Environmental protection
- High cost-effectiveness
- Excellent chemical resistance

## ■ Physical Properties

Property	Test Method	Value
Density (g/cm <sup>3</sup> , 21.5 °C)	ASTM D792(ISO 1183,GB/T 1033)	1.39
Distortion temperature (°C)	DSC,10 C/min	81
Glasstransition temperature (°C)	ISO75 18MPa	77
	0.45MPa	82

## ■ Mechanical Properties

Property	Test Method	Value
Flexural Modulus(MPa)(X-Y)	Modified ASTM D790(ISO 178,GB/T 9341)	6094+1344
Flexural Strength(MPa)(X-Y)	Modified ASTM D790(ISO 178, GB/T 9341)	128.1 + 7.8
Impact strength(kJ/m <sup>3</sup> )(X-Y)	Modified ASTM D256(ISO 179,GB/T 1043)	21.3 + 0.92
Flexural Modulus(MPa)(Z)	Modified ASTM D790(ISO 178,GB/T 9341)	2701+ 366
Flexural Strength(MPa)(Z)	Modified ASTM D790(ISO 178,GB/T 9341)	46.8 +3.3
Impact strength(kJ/m <sup>3</sup> ) (Z)	Modified ASTM D256(ISO 179, GB/T 1043)	5.2 + 1.3

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