

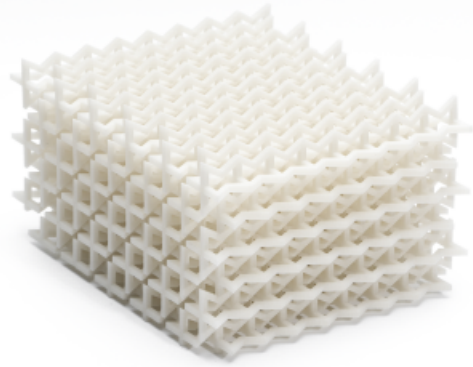
PP GB

Material Introduction

Enabled by BASF Forward AM



enabled by BASF



Wrist guard



Cooling/A/C system part

Material Specification

Material Properties

Flexural strength: 33 MPa

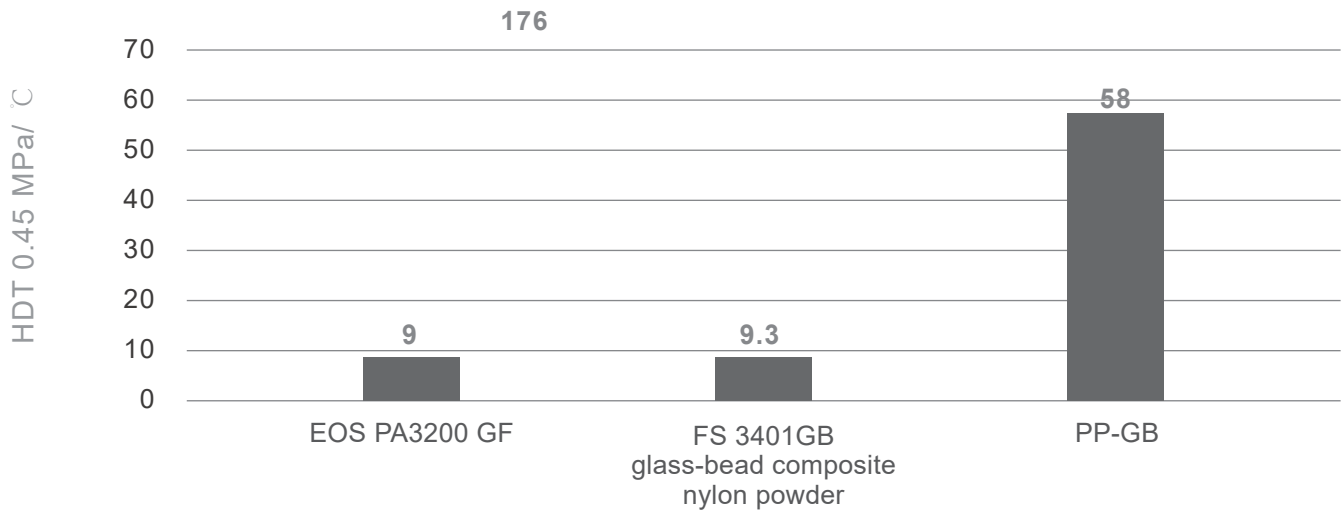
Flexural modulus: 2000 MPa

Elongation at break: 58 %

Color: Light Grey

Advantages

- **Cost Effective:** Innovative and cost-effective material enabled by BASF Forward AM. It meets and exceeds the requirements of most printed components, which results in cost reduction and value increment significantly.
- **High Rigidity:** From prototype validation to functional parts, PP-GB exhibits excellent dimensional stability and high rigidity for demanding applications.



(PP-GB has higher toughness compared with other glass-bead materials.)

- Excellent Chemical Resistance: PP-GB is acid and alkali resistance, suitable for manufacturing parts exposed to chemical.

Recommendation

PP (Polypropylene) is one of the most widely used materials in conventional manufacturing and can now be used in 3D printing technology! BASF Forward AM PP-GB offers high toughness, excellent chemical resistance, structural tightness and low moisture absorption. Glass-bead filled PP-GB is an economical alternative to PA12 and has greater rigidity, dimensional stability, and abrasion resistance, making it suitable to manufacture robust jigs and fixtures, housings and all parts subject to abrasion and wear.

Applications

- Structural and appearance verification of household appliances:
Air conditioner, air purifier, vacuum cleaner, electric fan, ironing machine, water dispenser, juicer, hair dryer, etc.
- Structure and appearance verification of auto parts and supplies:
Rear-view mirrors, dashboards, steering wheels, lights, seats and handles, and other auto accessories; car navigators, driving recorders, car vacuum cleaners and other automotive supplies, etc.

➤ Structure and appearance verification of digital electronic products:

Laptops, tablets, mobile phones, digital cameras, game consoles, audio, MP3, mobile power, etc.

➤ Structure and appearance verification of mechanical and electrical equipment:

Industrial display panels, cameras, switches, sockets, power tools, electrical instruments, experimental instruments, measuring tools, etc.