

FGF Recycled PP Glassfiber (30%)

FGF Recycled PP Glassfiber (30%) is our FGF printable stiff Polypropylene. This has been developed specially for large scale printing by reducing the warping, while maintaining mechanical performance and a good layer adhesion. PP FGF stiffness and chemical/fatigue resistance makes it suitable for a variety of larger scale applications. This grade is made with post industrial recovered PP.

Material features:

- High strength
- Good chemical resistance
- Easy to print
- Almost no warping
- 30% glassfiber

Colour:

FGF recycled PP Glassfiber (30%) is available in the colour black

Packaging:

FGF Recycled PP Glassfiber (30%) is available in 20kg bag

Processing recommendations

Drying	4hr,70°C. <1000ppm
Zone 1 Temperature	230±20 °C
Zone 2 Temperature	230±20 °C
Zone 3 Temperature	230±20 °C
Mass temperature	230 °C
Die temperature	230±20 °C

Material properties

Description	Testmethod	Typical value
Specific gravity	ISO 1183	1,13 g/cc
MFI 230°C/2,16 kg	ISO 1133	10 g/10min
Tensile strength at yield	ISO 527	75 MPa
Elongation-strain at yield	ISO 527	2,6%
Tensile strength at break	ISO 527	75 MPa
Elongation-strain at break	ISO 527	3,4%
Tensile modulus	ISO 527	6400 MPa
Impact strength - Charpy method notched 23°C	ISO 179	5,8 kJ/m ²
Impact strength - Izod method notched 23°C	ISO 180	8 kJ/m ²
Flexural modulus	ISO 178	4600 MPa
Flexural strength	ISO 178	95 MPa
Vicat softening temperature B50	ISO 306	110°C

Additional info:

The glassfibre is mildly abrasive, please consider the use of a hardened steel nozzle when printing with FGF Recycled PP Glassfiber (30%). Do not use a breaker plate with screen.

Storage: Cool and dry (15-25°C) and away from UV light. This enhances the shelf life significantly.

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