

FGF Recycled PLA MATT

FGF Recycled PLA MATT is an easy to print variant on the everyday material PLA, with an aesthetical matt effect. Its surface diffuses light to give it a matt look and creates a rough feeling. PLA MATT is slightly abrasive, please consider using a hardened nozzle.

Material features:

- Matt effect, low light refraction
- Easy to print rough surface
- Reliable bed adhesion
- Improved printing speed compared to PLA

Colours:

Colours on request. Ask your accountmanager.

Packaging:

FGF recycled PLA MATT is available in 20kg bag



Processing recommendations

Drying	6hr,50°C*. <250ppm
Zone 1 Temperature	180±20 °C
Zone 2 Temperature	190±20 °C
Zone 3 Temperature	200±20 °C
Mass temperature	209 °C
Die temperature	210±20 °C

Material properties

Description	Testmethod	Typical value
Specific gravity	ISO 1183	1,38 g/cc
MFR 200°C/5 kg	ISO 1133	32,3 g/10min
Tensile Strength at Yield	ISO 527	47 Mpa
Tensile Strength at Break	ISO 527	50 Mpa
Elongation-Strain at Yield	ISO 527	2,2%
Elongation-Strain at Break	ISO 527	1,8%
Tensile modulus	ISO 527	5750 Mpa
Impact strength - Charpy notched 23°C	ISO 179	1,9 kJ/m2
Vicat softening temperature	ISO 306	58°C
Mold shrinkage	Internal method (ISO 294-4 based)	0,09%

Additional info:

*As PLA materials crystallize, it is advised to either have an agitated dryer, or dry at a lower temperature for a longer period. This avoids that the pellets stick to each other during drying. Please consider the use of a hardened steel nozzle and, if used, a gear pump, when printing with PLA MATT. The matting agent is mildly abrasive and will result in faster wear of brass nozzles.

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

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