

FGF Recycled PLA

PLA is one of the best sellers in the 3D printing world. Naturally, reducing the waste streams of our PLA is our priority. We found out that our RPLA (97% recycled), print performance is almost the same (if not better) as our regular PLA.

Material features:

- Post Industrial waste (>97% recycled)
- Low warping
- Limited smell



Colours:

Colours on request. Ask your accountmanager.

Packaging:

FGF recycled PLA is available in 20kg bag

Processing recommendations

Drying	6hr,80°C*. <250ppm
Zone 1 Temperature	175±20 °C
Zone 2 Temperature	200±20 °C
Zone 3 Temperature	215±20 °C
Mass temperature	210 °C
Die temperature	240±20 °C

Material properties

Description	Testmethod	Typical value
Specific gravity	ISO 1183	1,24 g/cc
MFR 200°C/5 kg	ISO 1133	9,6 g/10min
Tensile Strength at Yield	ISO 527	66 Mpa
Tensile Strength at Break	ISO 527	66 Mpa
Elongation-Strain at Yield	ISO 527	2,3%
Elongation-Strain at Break	ISO 527	2,3%
Tensile modulus	ISO 527	3030 Mpa
Impact strength - Charpy notched 23°C	ISO 179	3,4 kJ/m2
Vicat softening temperature	ISO 306	60°C
Mold shrinkage	Internal method (ISO 294-4 based)	0,3%

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.

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

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