3Dee PLA series "G"

Technical Data Sheet

3Dee PLA is a strong, easy to use high grade PLA type of filament, ideal for 3D printing. Slightly modified, the filament retains its typical features but makes it tougher, less brittle and easier to print. Due to a low shrinkage factor PLA will not deform after cooling. Our Poly Lactic Acid Filament is a biodegradable plastic, made from renewable natural resources and one of the most sustainable materials for 3D printing.

Material features:

- Tougher, less brittle compared to regular PLA blends
- Easy to print at low temperatures
- Low warping
- Biodegradable & sustainable

Material properties

Description	Test method	Typical value
Specific gravity	ISO1183	1,24 g / cc
MFR 210°C / 2,16kg	ISO1133	9,56 gr / 10min
Tensile Strength at Yield (MPa)	ISO527	70 MPa
Strain at yield	ISO527	5%
Strain at break	ISO527	20%
E-Modulus	ISO527	3120 Mpa
Flexural Strength (MPa)	ISO178	101 MPa
Impact strength - Charpy 23˚C	ISO179	3,4 kJ / m2
Moisture absorption	ISO62	1968 ppm
Printing temp.	DF	205 ± 10 °C
Melting temp.	ISO11357	115 ± 35 °C
Vicat softening temp.	ISO306	60 °C
Glass transition temp.	ISO11357	57 °C
RoHS compliance		yes
REACH compliance		yes

The numbers presented are typical values intended for reference and comparison purposes only. The performance characteristics of 3D printed parts may vary according to build conditions, print settings or applications.

Additional information:

If you have a heated bed the recommended temperature is 35-60˚C.
Storage: Cool, dry (15-25˚C) and away from light.

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