

# TECHNICAL DATA SHEET

## PLA CF FILAMENT

PLA CF is the most commonly used filament. It's a biobased polymer derived from natural resources and offers a significant reduction in carbon footprint compared to synthetic polymers. It's easy to print, very strong and perfect choice for printing large objects due to low thermal expansion and low warping property.

Application: - functional part, prototypes, functional models, architectures, customized gift article or moon lamp, lithophane article as well as other printing parts.

Post processing: - wet sanding

### TYPICAL PLA MATERIAL PROPERTIES

Physical properties	Method	Typical value
Melt flow index	ISO 1133	7 g/10MIN
Glass transition temperature	DSC	60°C
Mechanical properties	Method	Typical value
Tensile modulus	ISO 527	3600 MPa
Tensile strength	ISO 527	48 MPa
Elongation at break	ISO 527	≤ 5%
Heat deflection temp	ISO 75	60°C

#### Disclaimer

The results in the data sheet are just for your information and comparison values are significantly dependent on print or printer settings, operating experiences and surrounding conditions or weather. Everyone has to consider suitability and possible consequences of printed parts usage. Tesseract cannot carry any responsibility for any change of data during outside testing or injuries or any loss caused by using of Tesseract material.