



PLA with Cork Fibers (Cork Filament)

General Information

Our cork filament is a modified PLA with 30% cork content. The printed objects feel like cork. The printed parts have a pleasantly soft surface. The filament is relatively flexible.

The cork filament is excellent for objects that should have a similar look and feel to cork. Ideally suited for, e.g., seat surfaces, handles, model making, airplane models, etc.

Since cork absorbs a lot of moisture, it is advisable to always store the filament in an airtight package and, if necessary, dry it again.

Advantages

- Can be printed directly on a glass plate
- Biodegradable
- Very low warping and shrinkage
- Feels like cork
- Pleasantly soft surface

Disadvantages

- Can become soft again at 60 degrees Celsius
- Density significantly lower than regular PLA

Processing Data

Printing Temperature:

190-230 °C

Heated Bed Temperature:

Not required, 50 °C recommended

Drying Temperature:

60 °C

Drying Time:

2-4 hours

Technical Data

Shrinkage: %	-	%
MFR (ISO 1133)	2.5-5	g/10min
Tensile Strength (ISO 527)	39	MPa
Elongation at Break (ISO 527)	5.4	%
Elongation at Tear (ISO 527)	18	%
Tensile Modulus (ISO 178)	2150	MPa
Heat Deflection Temperature at 0.45 MPa	-	°C
Vicat Softening Temperature A	-	°C
Thermal Conductivity at 23°C	-	W/(K*m)
Flammability (UL 94)	HB	
Density (ASTM D1505)	1.02	g/cm ³

