

TEHNICAL DATA SHEET

FILACETATE (CELLULOSE ACETATE)

Date of issue: 17.05.2018

Date of update: 21.03.2020

Product description:

Cellulose Acetate is a biodegradable thermoplastic derived from natural cellulose sources such as wood or cotton. This filament offers excellent transparency, gloss, and toughness, along with good flexibility and impact resistance. It is well-suited for applications where a combination of sustainability, durability, and aesthetic appeal is required.

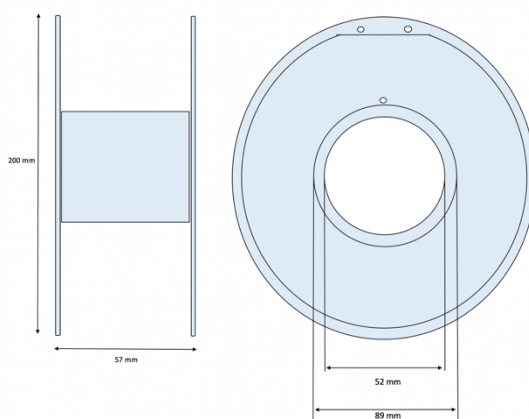
Storage:

Store in dry area, in a closed container away from moisture.

PRODUCT PARAMETERS

Parameter	Value
Filament diameter [mm]	1.75
Diameter tolerance [mm]	+/- 0,02
Oval tolerance [mm]	+/- 0,02

Spool dimensions [mm] (ø / height / hole ø)	200/57/52
Spool weight [g]	325
Spool material	Transparent PC
Weight with packaging [g]	1 550
Net weight [g]	1 000
Box dimensions [mm]	203/207/70



RECOMMENDED PRINTING PARAMETERS

Parameter	Value
Print temperature [°C]	190-230
Bed temperature [°C]	60-80
Cooling [%]	Low or moderate (20-50)
Closed chamber	Recommended
Chamber temperature [°C]	60-80
Printing Speed [mm/s]	25-50
Nozzle type	-

PHYSICAL PARAMETERS OF THE MATERIAL

Parameter	Value	Unit	Test method
Density	1,2	g/cc	ISO 1183
Melt flow rate	10-15	g/10min	ISO 1133 220°C/10Kg
Vicat softening temp.	96	°C	ISO 306 VST/A/50 (50°C/h,10N)
Tensile modulus	1500	MPa	ISO 527 1mm/min
Tensile strength	35	MPa	ISO 527 @Yield 50mm/min (2inch/min)
Elongation at break	20	%	ISO 527 @Break 50 mm/min (2inch/min)
Impact strength	18	KJ/m2	ISO 179 Charpy Notched @23°C (73°F)

The values above have been measured using standard test specimens made of non-colored material at room temperature. The figures should be considered as indicative values only. Actual properties of FILACETATE parts can be affected by the printing parameters, design of the model, ambient conditions, application of the printout etc. It is essential that users test our products to determine whether they are suitable for their intended use.