

PRODUCT NAME: FILAMENT 3D BioCREATE 1,75mm | 2,85mm

PRODUCT DESCRIPTION: BioCREATE filament is a thermoplastic polymer in the form of a thread, designed for 3D printing using the FFF/FDM method. Filament coiled on spools, vacuum-packed with desiccant in a PET/PE bag, and then in a box.

STORAGE: Store in dry area. Store in a closed container.

PRODUCT PARAMETERS

Parameter	Value
Filament diameter [mm]	1,75
Diameter tolerance [mm]	+/- 0,05
Oval tolerance [mm]	+/- 0,02
Net weight [g]	small spool: 500
	large spool: 3000 2500
Weight with packaging [g]	small spool: 800
	large spool: 4000 3500
Spool weight [g]	small spool: 245
	large spool: 685
Small spool dimensions [mm] (\varnothing / height / hole \varnothing)	small spool: 200/55/52
	large spool: 300/103/52
Box dimensions [mm]	small spool: 218/209/62
	large spool: 340/320/115

RECOMMENDED PRINTING PARAMETERS

Parameter	Value
Print temperature [°C]	200-230
Bed temperature [°C]	60-80

PHYSICAL PARAMETERS OF THE MATERIAL

Parameter	Value	Unit	Test method
Density	1,31	g/cm ³	-
VICAT	113	°C	-
Tensile modulus	3095	MPa	ISO 527 (1 mm/min)
Tensile strength at break	26	MPa	ISO 527 (5 mm/min)
Elongation at break	13	%	ISO 527 (5 mm/min)

Charpy impact strength	209	kJ/m ²	ISO 179/1
Charpy impact strength (notched)	8	kJ/m ²	ISO 179/1
Content of Renewable Materials of the organic phase of the component	79	wt.-%	-
Biobased Carbon Content of the compound	78	wt.-%	-
Food Contact Approval	YES	-	-

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 BioCREATE 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. ROSA PLAST Sp. z o.o. accepts no liability for any health detriment or material losses or any other losses related to the use of the material.

