

**PRODUCT NAME:** 3D FILAMENT PLA CarbonLook 1,75mm

**PRODUCT DESCRIPTION:** PLA CarbonLook filament - polymer blend based on polylactic acid with addition of carbon fiber in the form of a thread, designed for 3D printing using the FFF/FDM method. Printouts have satin surface with no visible layers. Filament coiled on spools or cardboard core (no spool), vacuum-packed with desiccant in a PA/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]	500	1000	1000 (ReFill)
Weight with packaging [g]	900	1400	1200
Spool weight [g]	Transparent PC: 245	Transparent PC: 260	Cardboard core: 30
	ECO PP wood: 190	ECO PP wood: 205	
		Masterspool ROSA3D: 250	
Spool dimensions [mm] ( $\varnothing$ / height / hole $\varnothing$ )	Transp. PC: 200/55/52	Transp. PC: 200/68/52	Cardboard core: 99/57/94
	ECO PP wood: 200/57/52	ECO PP wood: 200/70/52	
		Masterspool ROSA3D: 201,7/65/52	
Box dimensions [mm]	220/210/65	220/210/75	220/210/65

## RECOMMENDED PRINTING PARAMETERS

Parameter	Value
Print temperature [°C]	195-225
Bed temperature [°C]	40-60
Cooling [%]	50-100
Closed chamber	Not necessary
Drying conditions: [°C/h]	50/4

Filament is compatible with brass nozzles.

**ROSA PLAST Sp. z o.o.**

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### PHYSICAL PARAMETERS OF THE MATERIAL

Parameter	Value	Unit	Test method
Density	1,24	g/cm <sup>3</sup>	D792
Tensile modulus	3500	MPa	D882
Tensile strength	58	MPa	D882
Tensile strength at break	52	MPa	D882
Tensile elongation	6	%	D882
HDT	55	°C	E2092
Melting point	210	°C	-
Biodegradability (under composting conditions)	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 PLA CarbonLook 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.



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