

**PRODUCT NAME:** 3D FILAMENT PETG+CF 1,75mm

**PRODUCT DESCRIPTION:** PETG+CF filament - poly(ethylene terephthalate) with addition of glycol and carbon fiber, 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.

## PRODUCT PARAMETERS

Parameter	Value
Filament diameter [mm]	1,75
Diameter tolerance [mm]	+/- 0,05
Oval tolerance [mm]	+/- 0,02

Net weight [g]	500	1000	3000
Weight with packaging [g]	900	1400	4000
Spool weight [g]	ECO PP wood: 190	ECO PP wood: 205	710
	Transparent PC: 245	Transparent PC: 260	
Spool dimensions [mm] (ø / height / hole ø )	ECO PP wood: 200/57/52	ECO PP wood: 200/70/52	300/100/52
	Transp. PC: 200/55/52	Transp. PC: 200/68/52	
Box dimensions [mm]	220/210/65	220/210/75	325/310/110

## RECOMMENDED PRINTING PARAMETERS

Parameter	Value
Print temperature [°C]	240-270
Bed temperature [°C]	60-80
Cooling [%]	0-60
Closed chamber	Not required
Recommended nozzle	Steel
Drying conditions: [°C/h]	60/4

## PHYSICAL PARAMETERS OF THE MATERIAL

Parameter	Value	Unit	Test method
Density	1,32	g/cm <sup>3</sup>	-
VICAT	80	°C	-
Tensile modulus	8795	MPa	ISO 527 (1 mm/min)
Tensile strength	41	MPa	ISO 527 (5 mm/min)
Elongation at break	3,5	%	ISO 527 (5 mm/min)
Charpy impact strength	49	kJ/m <sup>2</sup>	ISO 179-1eU
Charpy impact strength (notched)	6	kJ/m <sup>2</sup>	ISO 179-1eA

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 PETG+CF 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.

