

# Nanovia PETG GF UV :

Glass fiber reinforced

Nanovia PETG GF UV is a FFF filament suitable for the production of structural and technical objects for outdoor applications. Water and temperature resistant up to 80 °C, it's enriched with UV resistant additives. Its glass fibre reinforced matrix makes it 40% more resistant than native PETG. These glass fibers, in addition to facilitating the 3D printing process, also increase part rigidity.



## Advantages :

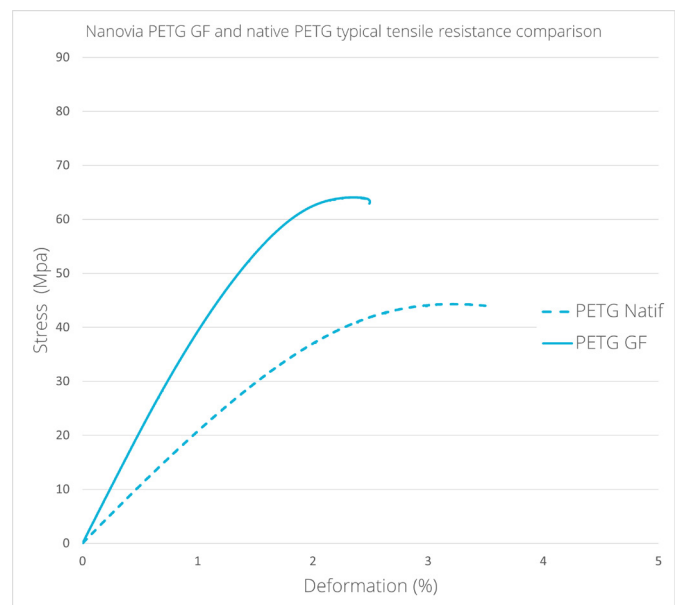
UV and water resistant • Rigide • Easy to print • Insulating

### 3D Printing

Extrusion temperature	220 - 240	°C
Plate temperature	80 - 90	°C
Enclosure temperature	20	°C
Nozzle (minimal)	0,5	mm

### Mechanical properties

	Physique		
Density	1,42	g/cm <sup>3</sup>	ISO 1183
	Traction (0°)		
Young's modulus	4284	MPa	ISO 527
Ultimate strength	63	MPa	ISO 527
Elongation ultimate strength	2,3	%	ISO 527
	Traction (+45° -45°)		
Young's modulus	2810	MPa	ISO 527
Ultimate strength	42	MPa	ISO 527
Elongation ultimate strength	2,6	%	ISO 527
	Traction (90°)		
Young's modulus	2313	MPa	ISO 527
Ultimate strength	27	MPa	ISO 527
Elongation ultimate strength	1,5	%	ISO 527



COMPOSITE MATERIALS for  
ADVANCED INDUSTRIALS

For more information on this filament, please visit :

[www.nanovia.tech/petg-gf-uv](http://www.nanovia.tech/petg-gf-uv)

## Thermal properties

T<sub>g</sub> | 80 °C

## Application

### Storage

- Store Nanovia PETG GF in a dry and dark location, if possible with a desiccant.
- In order to guarantee good printing conditions, dehydrate at 60 °C for 4 hours or longer, when the spool has been exposed to moisture for an extended period.

## Health and safety

### Post treatment

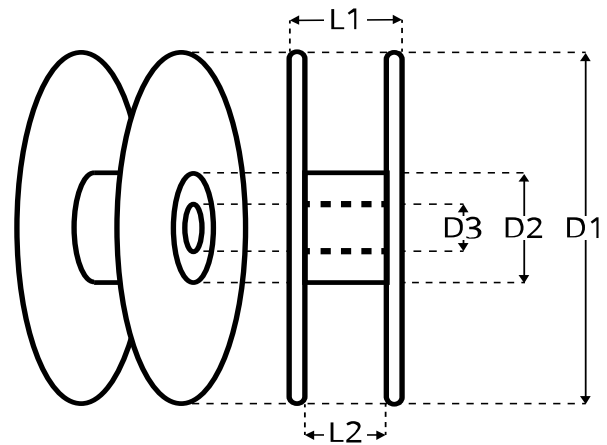
- We recommend wearing standard safety equipment during the post treatment of your prints.



## Packaging

- Spools are equipped with both a material traceability and a production series number.
- Spools are packed in individual boxes, vacuum sealed with desiccant.
- Nanovia PETG GF is also available in pellet form for plastic extrusion and 3D FGF pellet printing.

Spool	L1	L2	D1	D2	D3	weight
500 g	50	45	200	105	52	182 g
2 kg	93	87	300	195	52	668 g



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last updated : 30/11/22