

Nanovia PETG CF :

Carbon fibre reinforced

Very easy to 3D print, Nanovia PETG CF is printable without a heated enclosure and allows for the creation of functional parts useable up to 80 °C, suitable for an outdoor usage. Thanks to the incorporation of carbon fibers, this FFF 3D printer filament allows for good mechanical properties, rigidity, and dimensional control during the realization of technical parts.



Avantages :

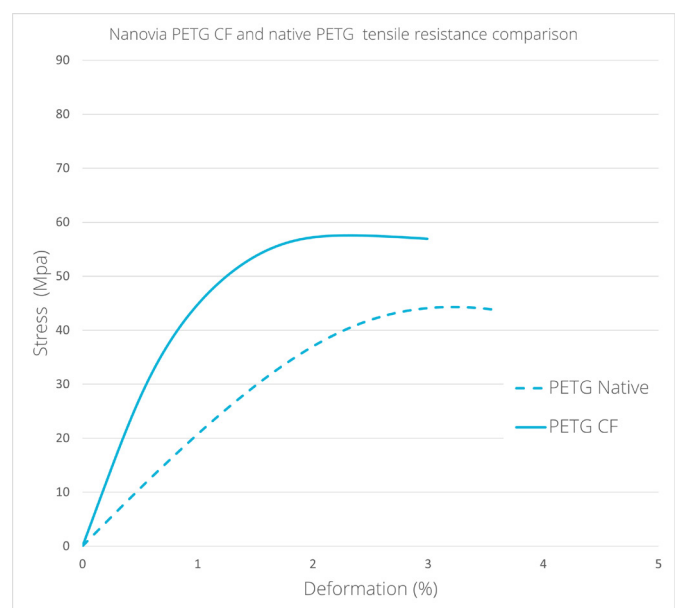
Good mechanical properties • dimensional control • Ideal for structural pieces

3D Printing

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

Mechanical properties

Density	1.35	g/cm ³	ISO 1183
Traction			
Young modulus	6600	MPa	ISO 527
Ultimate strength	58	MPa	ISO 527
Elongation at break	3	%	ISO 527
Impact			
Charpy (notched)	20	kJ/m ²	



Thermal properties

Tg	80	°C
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COMPOSITE MATERIALS for
ADVANCED INDUSTRIALS

For additional information on this product, please visit :

www.nanovia.tech/petg-cf

Application

Stockage

- Store Nanovia PETG CF in a dry and dark location, if possible with a desiccant.
- In order to guarantee good printing conditions, dehydrate Nanovia PETG CF at 60 °C for 4 hours or longer, when

the spool has been exposed to moisture for an extended period.

Post treatment

- For an outdoor usage, it's recommended painting or using an anti UV treatment on prints, such as our Nanovia smoothing solution.

Health and safety

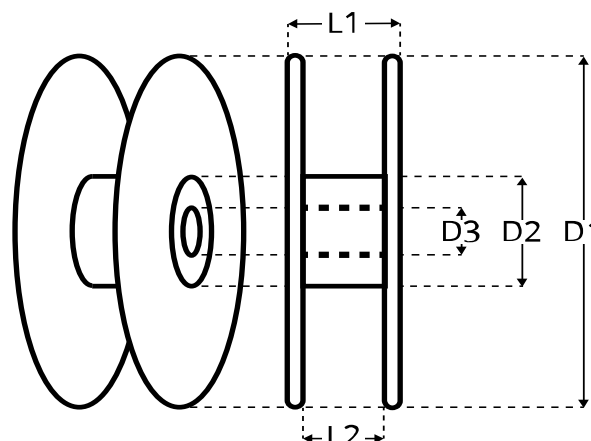
Post treatment

- Wearing standard safety equipment during the post treatment of prints made with Nanovia PETG CF is recommended.

Packaging

Spool	L1	L2	D1	D2	D3	weight
500 g	53	46	200	90	52	182 g
2 kg	92	89	300	175	52	668 g

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



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dernière mise à jour : 03/01/23