Nanovia ABS CF :

Carbon fibre reinforced

Reinforced with carbon fibres, Nanovia ABS CF is a versatile 3D printing FFF filament adapted for the creation of outdoor components. This rigid material is able to withstand temperatures of up to 100 °C, offers a superior mechanical resistance and good UV resistance thanks to its carbon fibre composition. Furthermore the carbon fibres facilitate the printing process by reducing ABS's warping phenomenon.

Avantages :

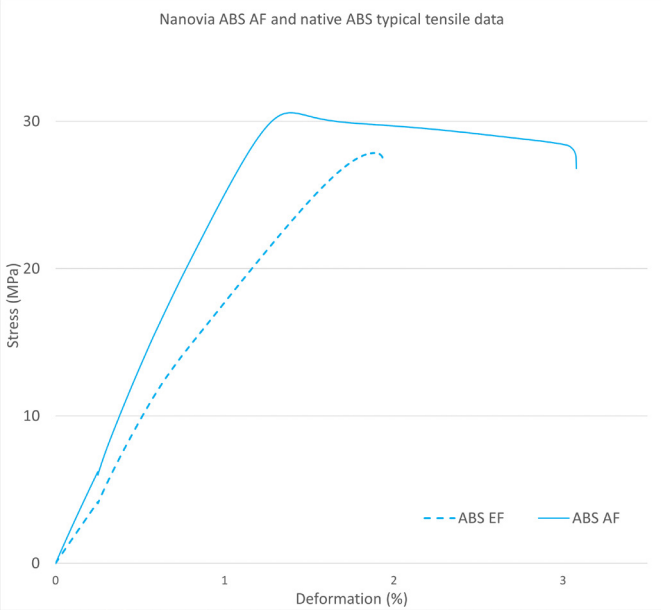
Increased stiffness • Increased mechanical resistance • Low warping

3D Printing

Extrusion temperature	240 - 260	°C
Plate temperature	100 - 110	°C
Enclosure temperature	90	°C
Nozzle (minimun)	0,5	mm

Mechanical properties

Physical			
Density	1.05	g/cm³	ISO 1183
Traction			
Young modulus	2550	MPa	ISO 527
Ultimate strength	31	MPa	ISO 527
Elongation at break	4	%	ISO 527
Impact			
Charpy (notched)	16.05	kJ/m²	



Thermal properties

Tg	110	°C

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Application

Storage

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

Health and safety

Printing

- We recommend printing Nanovia ABS CF in a room equipped with air extraction or by using appropriate breathing equipment. Whilst printing ABS produces a VOC derivative of styrene.

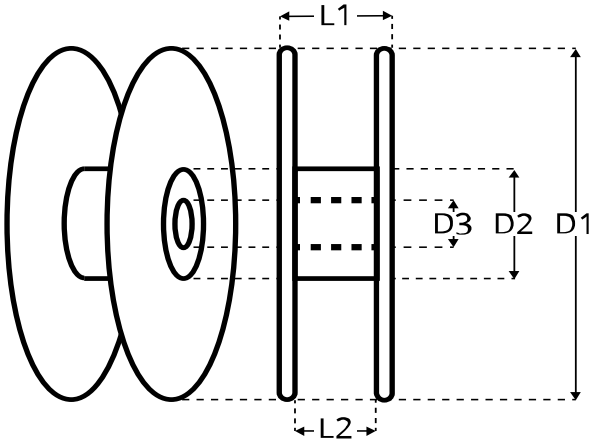
Post treatment

- Wearing standard safety equipment during the post treatment of prints made with Nanovia ABS 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 traciblity and a production series number.
- Spools are packed in individual boxes, sous-vide with desiccant.
- Nanovia ABS CF is also availble in pellet form for plastic extrusion and 3D FGF pellet printing.



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For additional information on this product, please visit :

www.nanovia.tech/abs-cf

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