Nanovia ABS AF :

Aramid fibre reinforced

Nanovia ABS AF, is an aramid fibre reinforced FFF filament suited for the creation of non-conductive, shock resistant parts that are able to withstand temperatures up to 100 °C. The less abrasive and lighter aramid fibres, compared to both carbon and glass fibres, improve the material's mechanical properties and facilitate the printing process by reducing the warping phenomenon common with ABS.

Avantages :

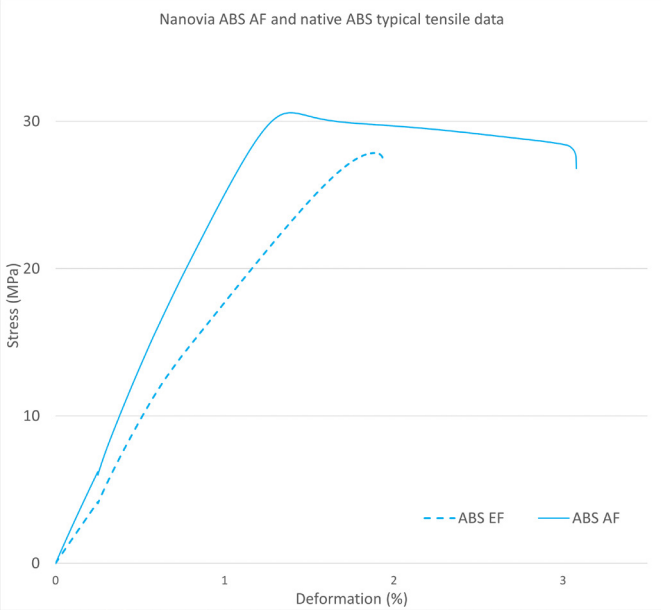
Lighter prints • increased mechanical and friction resistance • Low warping

3D Printing

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

Mechanical properties

Density	1.04	g/cm³	ISO 1183
Traction			
Young modulus	2600	MPa	ISO 527
Ultimate strength	31	MPa	ISO 527
Elongation at break	3	%	ISO 527
Impact			
Charpy (notched)	17.59	kJ/m²	



Thermal properties

Tg	110	°C

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For additional information on this product, please visit :

www.nanovia.tech/abs-af

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www.nanovia.tech

Application

Storage

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

Post treatment

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

Health and safety

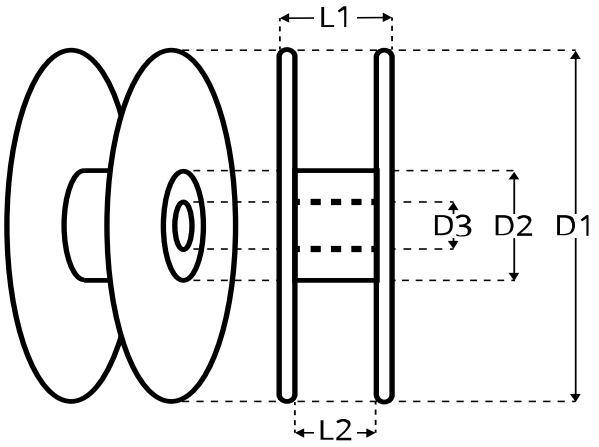
Post treatment

- Wearing standard safety equipment during the post treatment of prints made with Nanovia ABS AF 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 AF is also availble in pellet form for plastic extrusion and 3D FGF pellet printing.



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