



COMPOSITE MATERIALS *for*
ADVANCED INDUSTRIALS

Nanovia Flex V0 :

Fire resistant Shore 90A/40D

Nanovia Flex V0, is a flexible Shore 90A/40D fire retardant 3D printer filament. It's fire resistant V0, according to the UL-94 norm, at a low thickness of 0.8mm. Furthermore, it's easily printable on most 3D printers equipped with a direct drive and offers an excellent inter layer as well as bed adhesion.

Advantages

- Non-flammable V0 à 0.8mm
- Easy to print
- Flexible – shore 90a

Application recommendations

Storage

- Store in airtight container with desiccant, out of direct sunlight.
- Dehydrate for 4h at 100°C prior to printing after prolonged exposure to humidity.

3D printing

- When under extrusion occurs, reduce the print speed. Under extrusion might be due to the drive mechanism slipping on the filament.
- Limiting the max volumetric speed can also help with loading and retraction slipping.
- Nanovia Flex V0 is relatively fluid and might require a high retraction setting in the case of stringing.

Properties

3D Printing

Extrusion temperature	235 – 245	°C
Plate temperature	20 – 40	°C
Enclosure temperature	20	°C
Nozzle (minimal)	All	
Max volumetric speed	50 – 70	3,6 mm ³ /s
Diameter	1.75	mm +/- 50 µm
Colour	White	

Mechanical properties

Physical

Density	1.21	g/cm ³	ISO 1183
Hardness	90		Shore A
	40		Shore D

Tensile

Tensile resistance	27	MPa	VDE282 part 10
Resistance at 100% elongation	7	MPa	VDE282 part 10
Resistance at 300% elongation	10	MPa	VDE282 part 10
Ultimate elongation	524	%	VDE282 part 10

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Printing

- Print in a ventilated area.

Post traitement

- Standard PPE recommended (dust mask, gloves).

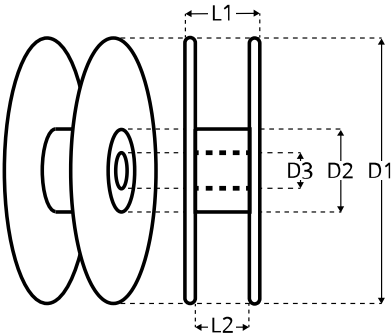
Certifications

- RoHS certification Nanovia Flex V0 :



Flammability	V-0	at 0.8 mm	UL 94
LOI	25	%	ASTM D-2863

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Packaging

Vacuum packed spools, with desicant, packed in individual boxes with engraved serial number.

Other formats available on demand.

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

www.nanovia.tech/ref/flex-v0

