



COMPOSITE MATERIALS *for*
ADVANCED INDUSTRIALS

Nanovia PLA VX: Virucide ISO 21702

Nanovia PLA VX filament, PLA based with an active virucide charge is certified ISO 21702 for its antiviral activity. The Nanovia VX (patent pending) technology, actively limits the spread of viruses and pathogens on its surface.



Advantages

- Certified Virucide norm ISO 21702 on influenza H1N1 (the H1N1 is a shell virus similar to COVID19)
- No risk on contact
- Auto decontamination/ prevents the formation of a biofilm
- Easy to print
- Food safe
- Long term efficiency
- PLA VX : print daily use objects with ease
- [Flex VX](#): flexible filament, shock and distortion absorbing (soles....)

Application recommendations

Storage

- Store in airtight container with desiccant, out of direct sunlight.

Properties

3D Printing

Extrusion temperature	200 – 215 °C
Plate temperature	60 – 70 °C
Enclosure temperature	20 °C
Nozzle (minimum)	0,5 mm
Diameter	1.75 & 2.85 mm +/- 50 µm
Colour	Green

Mechanical properties

Density	1.24 g/cm ³	ASTM D792
Young modulus	2315 MPa	ASTM D638
Break resistance	50 MPa	ASTM D638
Elong. at break	3.30 %	ASTM D638
Charpy notched	1.8 kJ/m ²	ISO 179-1eU

Thermal properties

Tg	55 – 60 °C
HDT at 0,45 MPa	80 – 90 °C

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Health and safety

Post treatment

- Do not apply any paint or coating on pieces printed using Nanovia PLA VX, in order to conserve its virucide properties.

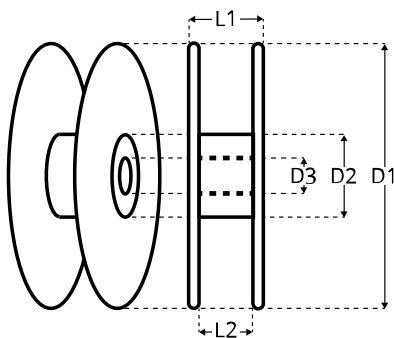
Use biocide products with precaution

Please refer to the safety sheet and the technical data sheet when using Nanovia PLA VX

ANSES N° : 20-07988

Certifications

- Certification RoHS Nanovia PLA VX :



Packaging

Vacuum packed spools, with desiccant, 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/pla-vx

Biological

% elimination 1H	86,8 %	ISO 21702
% elimination 2H	98,7 %	ISO 21702
% elimination 4H	99,9 %	ISO 21702
% elimination 8H	99,9 %	ISO 21702

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