

Nanovia PETG ESD :

AntiStatic Discharge

Protect your sensitive electronic devices with this ceramic charged ESD FFF filament. Nanovia PETG ESD prevents the accumulation of static electricity by gradually discharging it. It can house circuits and components that go up to 80 °C and doesn't leave any residue in the case of friction unlike carbon based ESD filaments.



Advantages :

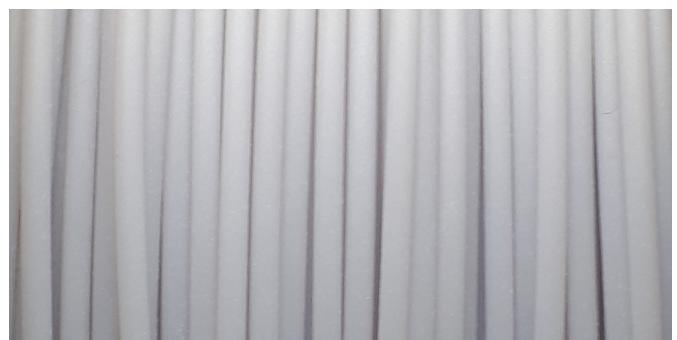
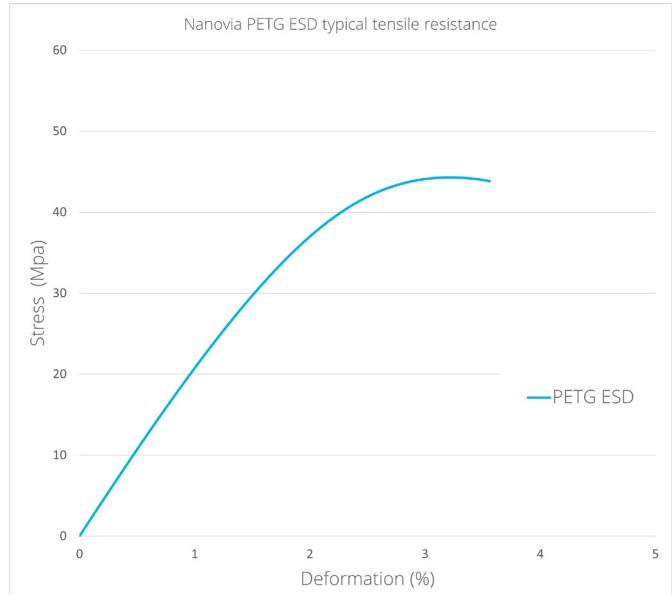
Discharges static electricity • Easy to print • Useable in clean rooms

3D Printing

Extrusion temperature	245 - 255	°C
Plate temperature	85 - 90	°C
Enclosure temperature	20	°C
Nozzle (minimal)	all	mm

Mechanical properties

Density	Physical		
	1.32	g/cm ³	ISO 1183
Traction (0°)			
Young's modulus	2265	MPa	ISO 527
Ultimate strength	44	MPa	ISO 527
Elongation ultimate strength	3.2	%	ISO 527
Traction (+45° -45°)			
Young's modulus	2130	MPa	ISO 527
Ultimate strength	43	MPa	ISO 527
Elongation ultimate strength	3.4	%	ISO 527
Traction (90°)			
Young's modulus	1835	MPa	ISO 527
Ultimate strength	24	MPa	ISO 527
Elongation ultimate strength	1.5	%	ISO 527



COMPOSITE MATERIALS for
ADVANCED INDUSTRIALS

For more information on this filament, please visit :

www.nanovia.tech/petg-esd

Thermal properties

Tg	80	°C
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Electronical properties

Electrical resistivity	10^{10}	Ω
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Packaging

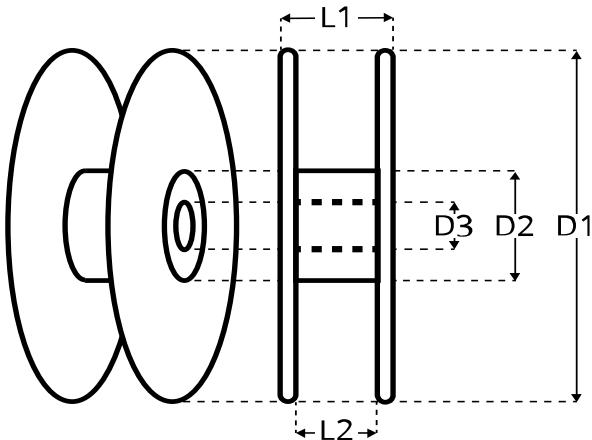
- Spools are equipped with both a material traciblity and a production series number.
- Spools are packed in individual boxes, vacuum sealed with desiccant.
- Nanovia PETG ESD is also availble in pellet form for plastic extrusion and 3D FGF pellet printing.

Application

Storage

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

Spool	L1	L2	D1	D2	D3	Weight
500 g	50	45	200	105	52	182 g
2 kg	93	87	300	195	52	668 g



Health and safety

Post treatment

- We recommend wearing standard safety equipment during the post treatment of your prints.

