



3DXNANO™ ESD PETG + Carbon Nanotube Filament

Product Description: 3DXNano™ ESD PETG (Polyethylene Terephthalate Glycol Copolymer) is a specialty 3D printing filament that utilizes multi-wall carbon nanotubes dispersed in PETG polymer. This filament is used in critical applications that require consistent electrostatic discharge (ESD) protection, low moisture absorption, low shrinkage, improved chemical resistance, and a high level of cleanliness. Suitable for use in consumer and commercial FDM/FFF type printers that have heated build platforms. Made in the USA.

Typical Properties

Property	Standard	Unit	3DXTech
			3DXNano™ ESD PETG
Tensile Strength (Yield)	ASTM D638	MPa	46
Tensile Modulus	ASTM D638	MPa	1794
Tensile Elongation	ASTM D638	%	13.5
Flexural Strength	ASTM D790	MPa	79
Flexural Modulus	ASTM D790	MPa	1779
Izod Impact, Notch	ASTM D256	ft-lb/in	1.16
Izod Impact, No-Notch	ASTM D256	ft-lb/in	16.5
HDT (@66psi)	ASTM D648	°C	74
Surface Resistance	ASTM D257	Ohms	$10^7 - 10^9$



Test Specimen Print Settings

- ASTM Test Specimen
- Consumer Desktop 3D Printer (FDM/FFF type), 0.4mm nozzle
- 100% infill, 2 shells, 0.2mm layer height
- Extrusion temp: 240°C, Bed Temp: 100°C
- Extrusion speed: 90mm/s
- All data in table reported from printed test specimen

Printing Recommendations

- Extruder Temperature: 230 to 250°C
- Bed / Platform Temperature: 23 to 105°C
- Bed Prep: 3DXTech Polyimide Tape
- Storage: Mylar Pouch (provided)

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