COEX

TECHNICAL DATA SHEET

Rev 3.0 · Issue date 10-27-2026 · Supersedes Rev 2.0 (2026-10-01)

ESD PETG 3D Printer Filament

PETG compounded with carbon nanotubes (CNT) · Product code CX14 · 1.75 mm

Base resin: PETG compounded with carbon nanotubes (CNT)

Typical values for the base resin. Printed parts vary with print settings, orientation and moisture content.

Physical properties

Property	Standard	Unit	Typical value
Specific Gravity - Density	ASTM D792	g/cc	1.29

Mechanical properties

Property	Standard	Unit	Typical value
Tensile Strength	ASTM D638	MPa (psi)	52 (7,500)
Tensile Modulus	ASTM D638	MPa (psi)	2,000 (290,000)
Elongation at Break	ASTM D638	%	12
Flexural Strength	ASTM D790	MPa (psi)	62 (9,000)
Flexural Modulus	ASTM D790	MPa (psi)	1,400 (203,000)
Notched Izod Impact	ASTM D256	J/m (ft·lb/in)	34 (0.6)
Unnotched Izod Impact	ASTM D256	J/m (ft·lb/in)	2,200 (41)

Thermal properties

Property	Standard	Unit	Typical value
Heat Deflection Temp @ 0.45MPa	ASTM D648	°C (°F)	70 (158)
Heat Deflection Temp @ 1.8MPa	ASTM D648	°C (°F)	64 (147)

Electrical properties

Property	Standard	Unit	Typical value
Surface Resistance	Internal method	Ohm	10^4

Filament specifications

Diameter	Nominal	Minimum	Maximum	Tolerance
1.75 mm	1.75 mm (0.0689 in)	1.72 mm (0.0677 in)	1.78 mm (0.0701 in)	±0.03 mm (±0.0012 i

Recommended print settings

Nozzle Temp	240–260°C (464–500°F), start at 250°C
Bed Temp	70–90°C (158–194°F), start at 80°C
Part Cooling Fan	40–70%, off for first layer
Build Plate	glue stick, hairspray or WELD3D as a release agent
Abrasive	use a hardened steel or wear-resistant nozzle.
Drying	4–6 h at 60°C (140°F) in a desiccant dryer

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