



Filament Specification

PA/NCT (Nylon reinforced with Carbon)

A filament that is ideal for more experienced users of 3D printers. PA/NCT is Nylon that has been reinforced carbon nano-tubes and therefore has greatly increased strength. This is a high specification material developed in our labs for engineering applications where extremely durable high strength prints & stiffness is paramount. A heated print bed is essential when printing with PA/NCT to prevent warping.

Cross-sectional roundness is consistent throughout the whole spool to ensure that a reliable printing experience is achieved over repeated prints. Our filaments are free from air bubbles or voids that help to ensure accurate and high definition printing results.

Available as 1.75mm or 2.85mm diameter filaments in sample bags*, 300g, 1kg & 3kg

Dimensional tolerance typically less than +/- 0.03mm

Suggested printing temperature 260-275°C

Suggested print bed temperature 100-110°C

Suggested printing speed 30-40 mm/s

Size of spool:	300g	1kg	3kg
Outer Diameter (mm)	160	200	300
Height of Spool (mm)	44	55	100

*samples are 5m for 2.85mm diameter and 10m for 1.75mm diameter

Packaging:

Each spool is hermetically sealed in an aluminium foil bag with silica gel. Additional cardboard packaging for protection in transit.

Before using PA/NCT, we recommend drying for at least 24 hours at 40°C to condition the material.

Storage:

Retain in foil bag with silica gel when not in use and keep in dry location at room temperature.