

PETG Filament Spools

DT Workshop Equipment Reference — D&T / STEM resource for school workshops | Consumables & Spares

PETG filament balances strength, toughness and easy printing, making it the go-to material for functional parts that need impact resistance and better heat and chemical tolerance than PLA. It prints at slightly higher temperatures and is less brittle.

Key Features

- Print temperatures 230-250 degrees C
- More durable and flexible than PLA
- Better heat, water and chemical resistance
- 1.75 mm standard spools
- Less odour than ABS

Typical Uses in the Workshop

- Print functional brackets, gears and enclosures
- Make parts for outdoor and wet uses
- Prototype parts that take knocks
- Print robot and machine components

Safe Operation

1. Dry PETG before printing - it strings when wet
2. Use a slightly lower speed than PLA
3. Set bed at 70-80 degrees C
4. Adjust cooling fan settings for adhesion
5. Print with slow first layers for grip

SAFETY NOTES

- Hotend temperatures are higher - keep clear
- Vent the printing area
- Do not touch the nozzle during prints
- Store filament dry
- Keep spools off the floor

Maintenance & Consumables

- Store in a dry box or with desiccant
- Dry the spool after long storage
- Clean the nozzle after switching materials
- Check the PTFE tube for the higher temps
- Keep the bed clean for adhesion

Specification & Buying Notes

Buy PETG for the functional parts programme; intermediate brands print with fewer issues. Stock clear and black as the primary colours. Confirm the printer hotend reaches 250 degrees C.