

Using 3D Printing Filaments: 3D-Fuel Standard PLA

Standard polylactic acid (PLA) is one of the most popular 3D printing materials because it is easy to print with and is durable. PLA is a hard plastic that quickly cools enabling it to provide more detail than other plastic filaments. It is derived from starches (sugar, tapioca) and offers quick printing times.

Benefits of printing with PLA:

- High resolution for printing accuracy
- Easy and fast to print
- Consistent printing results
- Inexpensive
- Validated for use with Adaptiiv software
- Durable and rigid



Adaptiiv has validated 3D-Fuel Standard PLA for consistency in printing radiation therapy accessories with the Raise3D Pro2 Plus printer.

How to Print with Standard PLA on the Raise3D Pro2 Plus

Adaptiiv recommends reviewing the following training and printing settings before use:

1. Watch [ADAP-V-01 Raise3D Pro2 Plus Training Video](#) in the e-learning section of the client portal.
2. Download the appropriate pre-set [settings files for the Raise3D Pro2 Plus](#).
3. Read [ADAP-G-05 Pro2Plus Setup](#) printing guide.

Tips for Successful Printing

- Remove the top panel from the printer to promote airflow.
- Use of the filament guide tubes is recommended.
- Use long nose pliers to remove supports and brim.
- After removing supports, sand the remaining bits with a sanding sponge or dremel.
- The print can be cleaned with water or isopropyl alcohol; do not use acetone.
- No specific storing requirements for PLA prints are required.
- Store filament spool back in the provided box to minimize humidity.

Links to Additional Information

[3D-Fuel 3D Printing with Standard PLA Brochure](#)

[3D-Fuel PLA Material Data Sheet](#)

[3D-Fuel Standard PLA Technical Data Sheet](#)