

Using 3D Printing Filaments: Raise3D 95A Premium TPU

Thermoplastic polyurethane (TPU) is an elastic thermoplastic which makes it ideal for printing objects that need to be flexible yet strong and durable. The result is a filament that is printable across all types of desktop 3D printers at ABS and PLA speeds, many times twice the speed of other flexible materials on the market.

Benefits of printing with Raise3D 95A Premium TPU:

- Prints as a flexible material
- Industry leading durability
- Prints at speeds greater than 60mm/s
- Chemical resistance to many materials
- Prints a smooth surface
- Validated for use with Adaptiiv software



Adaptiiv has validated Raise3D 95A Premium TPU for consistency in printing radiation therapy accessories with the Raise3D Pro2 Plus printer.

How to Print with Raise3D 95A Premium TPU

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 the Read [ADAP-G-05 Pro2Plus Setup](#) printing guide.
4. Read [ADAP-G-04 Raise3D TPU - Printing Guide](#).
5. Ensure your printer verify your printer settings using [ADAP-G-03 Raise3D Pro2Plus - Validated Settings Verification](#).

Tips for Successful Printing

- Ensure the top panel on the Raise3D Pro2 Plus is installed to maintain temperature control.
- Adaptiiv has specific recommendation on how to use of filament guide tubes for flexible filaments. They can be found in ADAP-G-04 Raise3D TPU - Printing Guide.
- It is essential that the filament is tightly spooled. If loose, it will tangle, leading to a failed print.
- Use long nose pliers to remove the print supports and brim.
- The print can be cleaned with water or isopropyl alcohol; do not use acetone.
- Store prints on a shelf ideally in the same orientation as printed. Stacking the prints onto each other can cause warping.
- Store the filament spool in the provided box to minimize humidity.

Links to Additional Information

[Raise3D Premium TPU 95A Safety Data Sheet](#)

[Raise3D Premium TPU 95A Technical Data Sheet](#)