

Printing TPU on Bambu Lab P2S

Overview: This video provides a complete guide to printing TPU on the Bambu Lab P2S printer, including hardware setup, filament loading, drying requirements, custom profiles, and print results.

Mads Tech -Bambu Lab P2S & TPU - Everything You Need To Know!:

<https://www.youtube.com/watch?v=r4Qt5Yn1c6w>

Hardware Setup & Limitations

- **[00:01:01] AMS incompatibility:** Standard TPU (Bambu TPU90/95 or third-party like Overture/Sainsmart) **cannot** use AMS or manual spool input
- **[00:01:37] Direct feeding required:** Bypass filament buffer - feed TPU directly into extruder (top) or printer back
- **[00:02:24] PTFE tube modification:** Replace stock tube with spare PTFE for top feeding
- **[00:03:10] Spool holder solution:** Use AMS lite, printed stand, or filament dryer due to awkward spool positioning

Filament Loading Process

- **[00:03:38] Back feeding method** (preferred): Push TPU through until it reaches extruder
- **[00:03:50] Printer configuration:**

Step	Action
1	Select "External Spool" ? "Generic TPU"
2	Choose color
3	Acknowledge TPU warnings
4	Load filament (apply gentle pressure until grabbed)

- **[00:04:23] Cold pull recommendation:** Bambu suggests it for cleaning; creator rarely needs it

Critical TPU Preparation

- [00:05:07] TPU is highly hygroscopic - must dry before use
- [00:05:26] Moisture symptoms:

Problem	Cause
Stringing	Wet TPU
Surface bubbles	Moisture in filament

- [00:05:39] Even new TPU needs drying - don't assume it's dry

Printing Setup in Bambu Studio

- [00:06:02] Profile options:

Profile Type	Notes
Generic TPU	Built-in, good starting point
Bambu TPU	For official filaments
MADS TPU 95P2S	Custom profile for Overture TPU (download available)

- [00:07:17] Custom presets available: Tree supports & standard supports
- [00:07:49] Profile disclaimer: Custom profiles optimized for specific use case; Bambu defaults work well

Print Results & Quality

- [00:08:11] Demo print: DJI Osmo Nano case
- [00:08:18] Quality achieved:

Feature	Result
Surface finish	Very clean, no bobbling
Overhangs	Tidy
Support removal	Easy, minimal residue

Feature	Result
Interface layers	Clean

- **[00:09:07] P2S capability:** Matches other Bambu printers for TPU quality

Pro Tips & Accessories

- **[00:09:21] Bambu splitter upgrade:** Allows multiple PTFE inputs for easier TPU swapping
- **Download links:** Custom TPU profiles in description

Conclusion

The Bambu Lab P2S prints TPU excellently with proper setup. **Key takeaways:** Direct feed (bypass AMS/buffer), **always dry TPU**, use appropriate profiles. Custom profiles available but Bambu defaults sufficient for most users.

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