Does the Bambu Lab AMS dry filament?

Asked 3D Content Team
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Abstract. Only the Bambu Lab AMS 2 Pro (up to 65 °C) and AMS HT (up to 85 °C) dry filament. The original AMS and AMS lite don't heat. AMS 2 Pro PETG preset: 65 °C, 12 h.

Keywords: pla, petg, tpu

Table 1. The number

Unit	Heater, maximum	PLA Basic	PETG	TPU 95A HF, TPU for AMS	Nylon composites	Not compatible for drying
AMS (first generation)	None: air-tight seal, desiccant	none	none	none	none	not applicable
AMS lite	None: open design	none	none	none	none	not applicable
AMS 2 Pro	Two drying modules, 65 °C	45 °C, 12 h	65 °C, 12 h	65 °C, 12 h, may not dry fully	Not compatible	ABS, ASA, PC, PVA, PET-CF, nylon, PPA-CF, PPS-CF
AMS HT	Drying module, 85 °C	45 °C, 12 h	65 °C, 12 h	75 °C, 18 h	85 °C, 12 h	PPA-CF, PPS-CF

1 Does the Bambu Lab AMS dry filament?

Two Bambu Lab AMS (Automatic Material System) units dry filament: the AMS 2 Pro heats to 65 °C and the AMS HT to 85 °C, and both need a connected printer to run. The original AMS and the AMS lite have no drying function. The original AMS only keeps filament dry with an air-tight seal and desiccant.

1.1 The number

Heater limits are from Bambu Lab's AMS 2 Pro part guide and AMS HT introduction. The presets and not-compatible lists are from the drying table in its Filament Drying Recommendations wiki. Bambu's store spec sheets list no drying function for the first two units. CF means carbon-fiber-filled; PET is polyethylene terephthalate, PPA polyphthalamide and PPS polyphenylene sulfide.

Bambu's AMS 2 Pro store page is looser than its wiki. It lists ABS (acrylonitrile butadiene styrene), ASA (acrylonitrile styrene acrylate), PC (polycarbonate), PVA (polyvinyl alcohol) and nylon among the filaments it can dry. Then it marks each one as needing more heat and says the unit "cannot dry them completely."

1.2 Why

The AMS 2 Pro has two drying modules under its main frame, each with a heater, a fan and a temperature sensor. They blow hot air around the spools while vents let the damp air out. The AMS HT works the same way.

The limits come from the plastic. PLA (polylactic acid), PVA, Support for PLA/PETG and TPU (thermoplastic polyurethane) soften at low temperatures. Bambu keeps them out of static mode, where the spool stays still and its coils can stick or deform. It also says to take PLA out of the AMS while ABS dries. Once a print starts, drying drops below the filament's softening point: 45 °C for PLA and 55 °C for PETG (glycol-modified polyethylene terephthalate).

1.3 How do you dry filament in the AMS 2 Pro?

1. **Power it.** An H2 series, P2S or X2D printer powers one AMS 2 Pro for drying, and each extra unit needs Bambu's 24 V 4 A Switching Adapter. On an X1, P1, A1 or A2L, every unit needs one. X1 and P1 printers also need the drying firmware Bambu released by the end of April 2025. Keep the 6-pin cable to the printer connected: the AMS can't dry on its own.
2. **Unload the filament.** Drying won't run while the AMS is auto-feeding. For rotation mode, pull the filament out of the inlet and lay it on the side of the spool.
3. **Close the top cover** and keep the vents underneath clear.
4. **Start it.** On an X1C, tap the AMS humidity icon on the Filament screen, pick the slot and press Start. On a P1, tap the notification that the AMS is available. Bambu filament's RFID (radio-frequency identification) tag sets the temperature and time. For other brands, set them yourself, up to 65 °C. You can also start it from Bambu Studio's Devices page.
5. **Let it cool for 5 to 10 minutes,** then check the filament for flattening or gear marks.

1.4 What temperature dries PLA in the AMS 2 Pro?

Bambu's drying table says 45 °C for 12 hours for every PLA grade it lists, including Silk, Wood and the carbon- or glass-

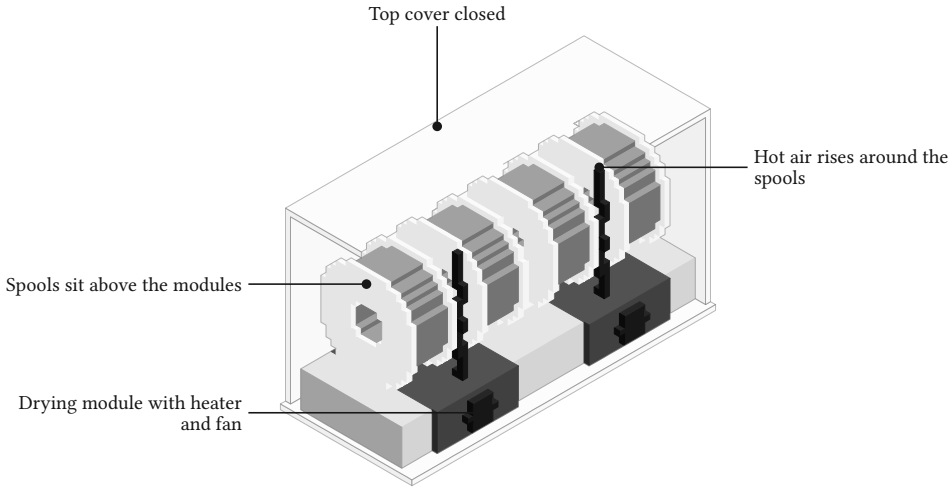


Figure 1. Each drying module under the main frame has a heater, a fan and a temperature sensor, and blows hot air around the spools while vents let the damp air out.

filled ones. Its X1 and P1 drying guide gives 45 to 55 °C for 6 to 8 hours instead. Support for PLA runs hotter, at 60 °C for 12 hours. Dry PLA in rotation mode only.

1.5 Can you dry PETG in the AMS 2 Pro?

Yes. Bambu's table sets 65 °C for 12 hours for PETG and PETG-CF, the AMS 2 Pro's maximum and the same as the AMS HT preset. Take any PLA out first, since its preset is 45 °C. The store warns that in a room below 25 °C, the AMS 2 Pro may not reach 65 °C.

1.6 Does the Creality CFS dry filament?

No. Creality calls the Creality Filament System (CFS) "an airtight storage and feeding system, not an active dryer." It has a temperature and humidity sensor that reads out on its screen, plus two compartments of calcium chloride desiccant, which can't be reused. Creality says to check the desiccant every two weeks: left over 3 months, it can leak water into the electronics. The CFS works with the K2 series and the Creality Hi, and it can't feed any TPU.

1.7 How to check it on your own print

- **Treat the humidity reading as a storage gauge.** On the AMS 2 Pro and AMS HT, it climbs after drying as the chamber cools. Bambu says nylon, PET-CF and TPU need drying before printing, whatever the reading.
- **On the original AMS, change the desiccant and check the lid seal at Level C** on its A-to-E humidity scale.
- **With an original AMS or AMS lite, dry the spool before loading it.** Bambu's forced-air oven settings are 50 °C for 8 hours for PLA Basic, 60 to 65 °C for PETG and 70 °C for TPU. It rules out kitchen and microwave ovens. Enclosed Bambu printers can also use the heated bed.
- **If TPU still strings or pops after an AMS 2 Pro cycle,** move it to the AMS HT (75 °C, 18 hours) or the heated bed. Bambu says the AMS 2 Pro may not fully dry TPU.
- **Seal it after drying.** Bambu says freshly dried filament at about 55 percent RH (relative humidity) can absorb enough moisture to hurt print quality within 2 to 12 hours. Store it below 20 percent RH.

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