

# HOW DOES MOISTURE AFFECT 3D PRINTING FIBER?

All filaments for 3D printing FDM / FFF absorb moisture from the environment in which they are located / they are hygroscopic.

Don't worry, the "wet" filament spools can be quickly dried, and proper storage can prevent future accidents.

## MEMORIZE

MATERIALS, SUCH AS **PA, PETG, PVA, OR TPU**, ARE PARTICULARLY HYGROSCOPIC, FIRST SYMPTOMS MAY APPEAR EVEN AFTER ONE NIGHT OF IMPROPER STORAGE.



### How to recognize a Wet Filament?

The easiest way is to extrude some filament and watch it come out of the nozzle. If you see any bubbles, hear a hissing/crackling/cracking, or see steam coming out of a filament, it means it is wet and needs to be dried.



### Filament Drying Process

OVEN / STOVE / FOOD DEHYDRATOR  
It is enough to set the temperature just below the glass transition temperature of the plastic and leave the spool for 4-6 hours for the moisture to evaporate.

- \* PLA: ~ 40-45 °C
- \* ABS: ~ 80 °C
- \* Nylon: ~ 80 °C
- \* PET-G ~ 80 °C

Remember, proper storage is not able to dry the filament - it can only protect against moisture. If the filament gets wet again, it must be dried.



### Proper Storage of Dry Fiber

To keep your filament in good condition, store dry spools in a controlled humidity environment. It can be anywhere - from a sealed box with moisture absorbers to dedicated commercial solutions. Usually, the first way is enough, but use the one that best suits your needs.

ENJOY  
YOUR  
3D PRINTING

EXCELLENT 3D SHAPE 4 YOU