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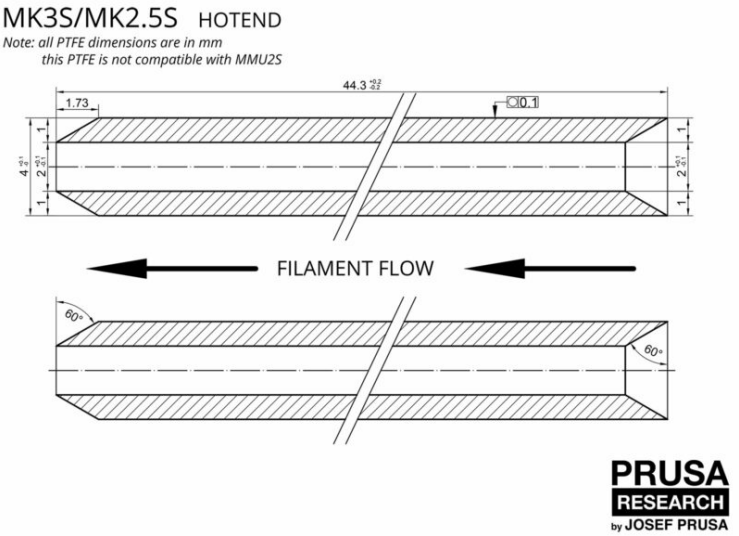
How to trim PTFE tube - Original Prusa printers



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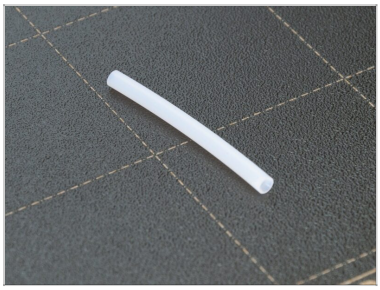
STEP 1 Introduction



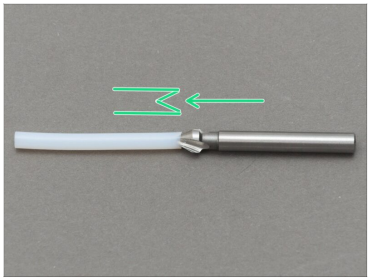
- This guide is dedicated to the PTFE trimming for **Original Prusa printers**, supported models are listed later on.

ⓘ For **Multi Material** PTFE trimming guide, go to: How to trim PTFE tube - Multi Material

- Read all these instructions before proceeding with the actual trimming and drilling! First few steps explain necessary tools, exact dimensions are given later.
- **Where to get the PTFE tubes?**
  - Trimmed and drilled tubes are available as spare parts at our eshop (prusa3d.com), in case any tube is missing, please contact our support via the live-chat window.
  - Alternatively, you can purchase the PTFE tubes from other suppliers. Make sure the PTFE tube has the desired dimensions (diameter), the lowest possible tolerances and also the hole is properly centred.

  ⓘ Regarding the brands, we have very good experience with FESTO. You can also get PTFE tubes from E3D.

STEP 2 Proper cutting and trimming tools



⚠ **ATTENTION!!!** Please read all instructions at least twice! If you trim or drill the tube improperly, you will have to order it again!

⚠ **READ CAREFULLY** instructions for the tools before you proceed further. Prusa Research is not responsible for any harm or injury.

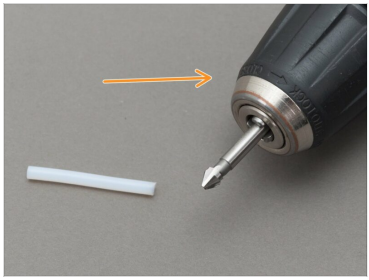
- For trimming get a cutting tool with a thin blade. Use either razor or carpet knife. **DON'T** use kitchen knife.
- For drilling is recommended to use a drill bit with conic head or you can use a drill bit with diameter 3,5 - 4 mm. The point is to make a conical entrance in the tube.

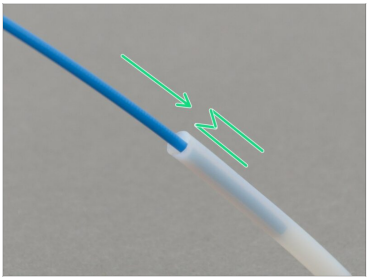
STEP 3 Trimming the PTFE tube

- Take the razor or knife and carefully trim the tube.

⚠ Don't press too hard during the cutting on the tube, you can deform the circular shape and this will lead to filament jam!

STEP 4 Drilling the tube's edge





- After cutting the tube to the appropriate length, you need to create the conical entrance.
- Use the drill bit you've prepared in the beginning. You can use an electric drill, but set it to low RPM and press very gently.
- For the other end, it is possible to use a pencil sharpener.
- It is important to achieve smooth entrance, so the filament will slide in. Clean the tube from any particles, which might prevent it.

STEP 5 Latest products

- **Latest products:**
  - Original Prusa XL
  - Original Prusa i3 MK3S+
  - Original Prusa MINI/MINI+
  - Original Prusa Enclosure

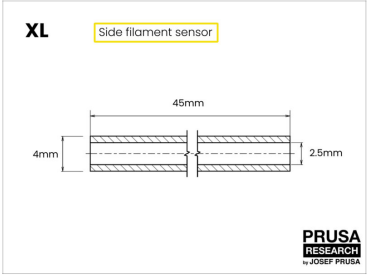
ⓘ Click on the products's name to get redirected to the appropriate step.

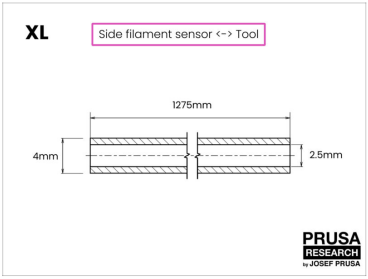
STEP 6 Obsolete printers

- **Obsolete printers:**
  - Original Prusa i3 MK3S
  - Original Prusa i3 MK2.5S
  - Original Prusa i3 MK3
  - Original Prusa i3 MK2.5
  - Original Prusa i3 MK2/S

ⓘ Click on the printer's name to get redirected to the appropriate step.

STEP 7 PTFE for the XL

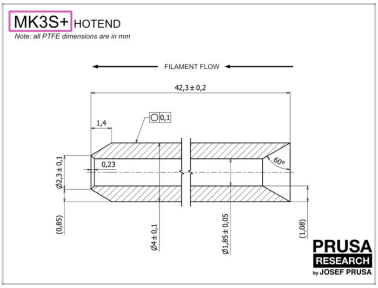




⚠ This an ideal shape of the PTFE tube for Original Prusa XL printer. Given dimensions and angles are recommended values.

- PTFE tube for the Side filament sensor
- PTFE tube between the Side filament sensor and the tool (print head)

STEP 8 PTFE for the MK3S+

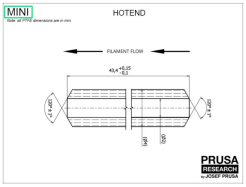


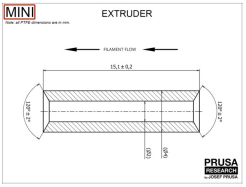
⚠ This an ideal shape of the PTFE tube for Original Prusa i3 printer. Given dimensions and angles are recommended values.

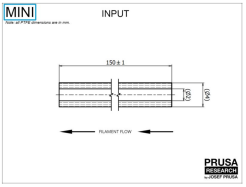
- HOTEND PTFE

ⓘ All dimensions are in millimetres.

STEP 9 PTFE for the MINI/MINI+ (part1)







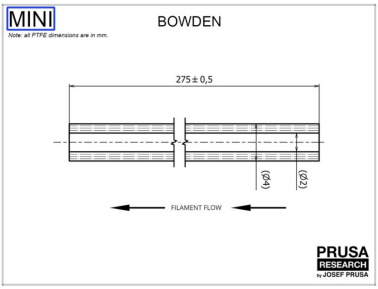
⚠ This an ideal shape of the PTFE tube for Original Prusa MINI printer. Given dimensions and angles are recommended values.

- HOTEND PTFE
- EXTRUDER PTFE
- INPUT PTFE

ⓘ See the next step for the other PTFE tubes for the MINI printer.

ⓘ All dimensions are in millimetres.

STEP 10 PTFE for the MINI/MINI+ (part 2)

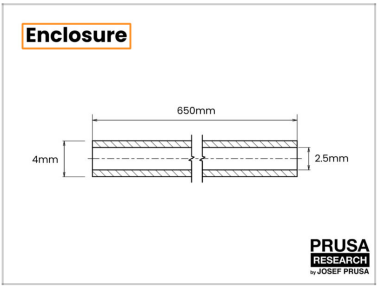


⚠ This an ideal shape of the PTFE tube for Original Prusa MINI printer. Given dimensions and angles are recommended values.

⬢ BOWDEN PTFE

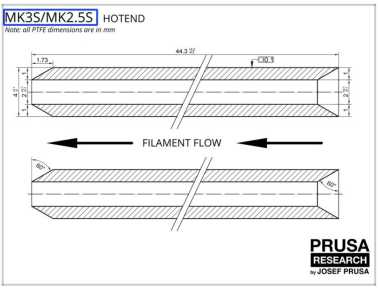
ⓘ All dimensions are in millimetres.

STEP 11 PTFE for the Enclosure



⬢ Filament Guide PTFE Tube

STEP 12 PTFE for the MK3S/MK2.5S

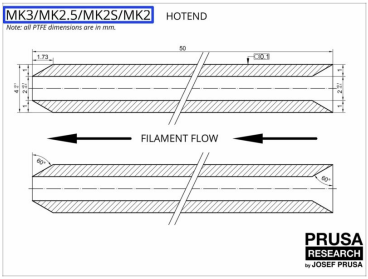


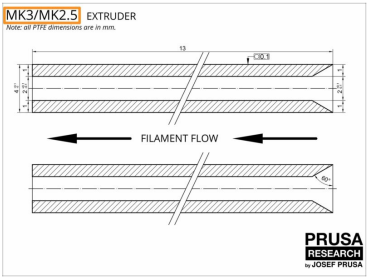
⚠ This an ideal shape of the PTFE tube for Original Prusa i3 printer. Given dimensions and angles are recommended values.

⬢ HOTEND PTFE

ⓘ All dimensions are in millimetres.

STEP 13 OBSOLETE: PTFE for the MK3/MK2.5/MK2S/MK2





⚠ This an ideal shape of the PTFE tube for Original Prusa i3 printer. Given dimensions and angles are recommended values.

⬢ HOTEND PTFE

⬢ EXTRUDER PTFE (MK3/MK2.5 only)

ⓘ All dimensions are in millimetres.

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