



Configure Cura 4.8 for B2X300

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Introduction

This tutorial will show you how to setup Cura 4.8 for usage with your B2X300 printer.

Please ensure you follow every step of the configuration to ensure proper function of the printer.

If any issue occurs during the setup procedures, please contact customer_service@beeverycreative.com.

Downloading and installing the required files

Cura 4.8

Download Cura 4.8, available here: <https://ultimaker.com/software/ultimaker-cura>

Install Cura 4.8, please ensure the “Arduino driver” checkbox is ticked during the installation procedure on the “Choose components” step.

B2x300 Profiles

Download the B2x300 resources files available here:

<https://github.com/beeverycreative/B2X300-resources> (full repository)

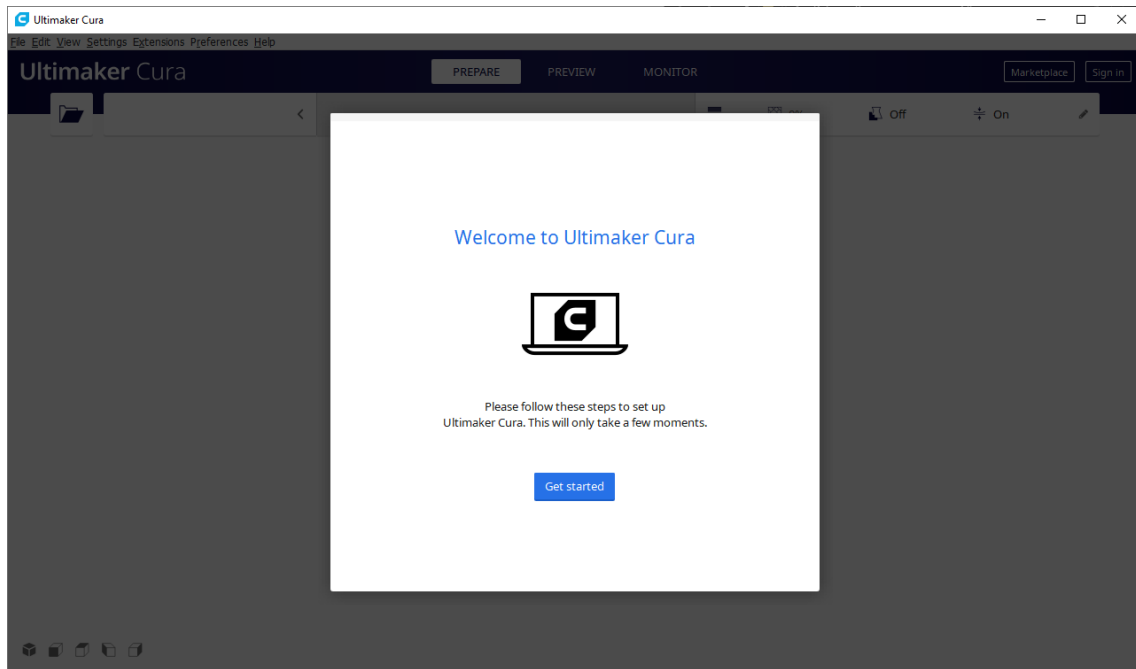
<https://github.com/beeverycreative/B2X300-resources/archive/master.zip> (direct link)

Extract the B2x300 resources Zip file.

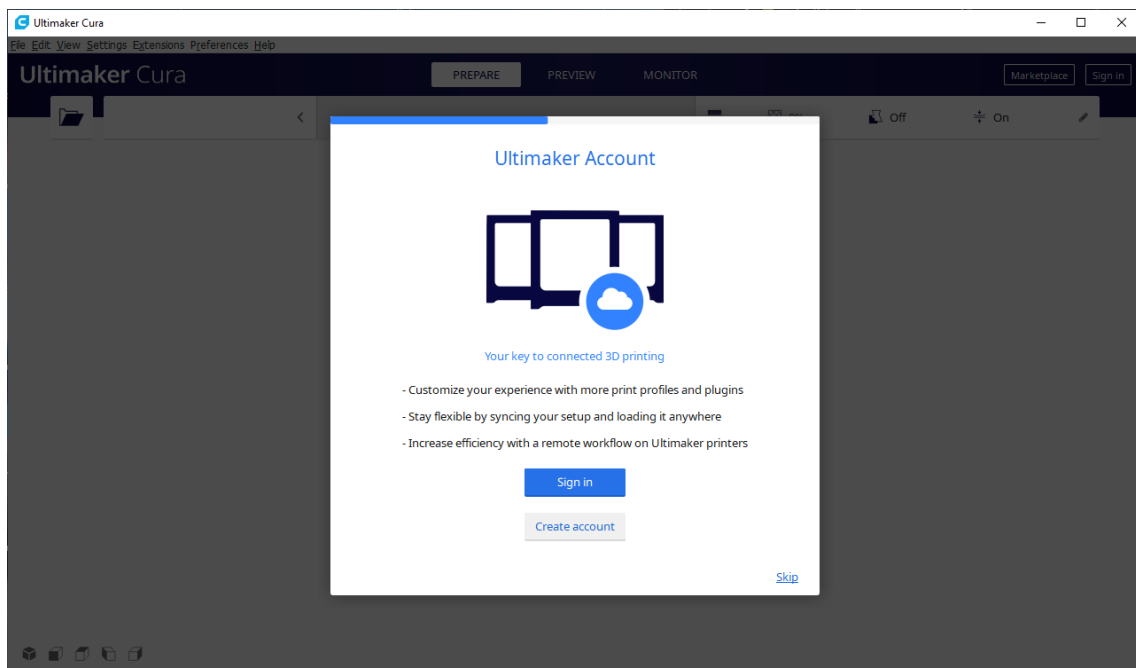
Importing B2x300 printer on Cura

To import the B2x300 printer on Cura and ensuring all the settings are correctly loaded we use an external profile as Cura's included profiles caused some issues with the operation of the machine. In order to ensure correct set up please follow all the steps closely

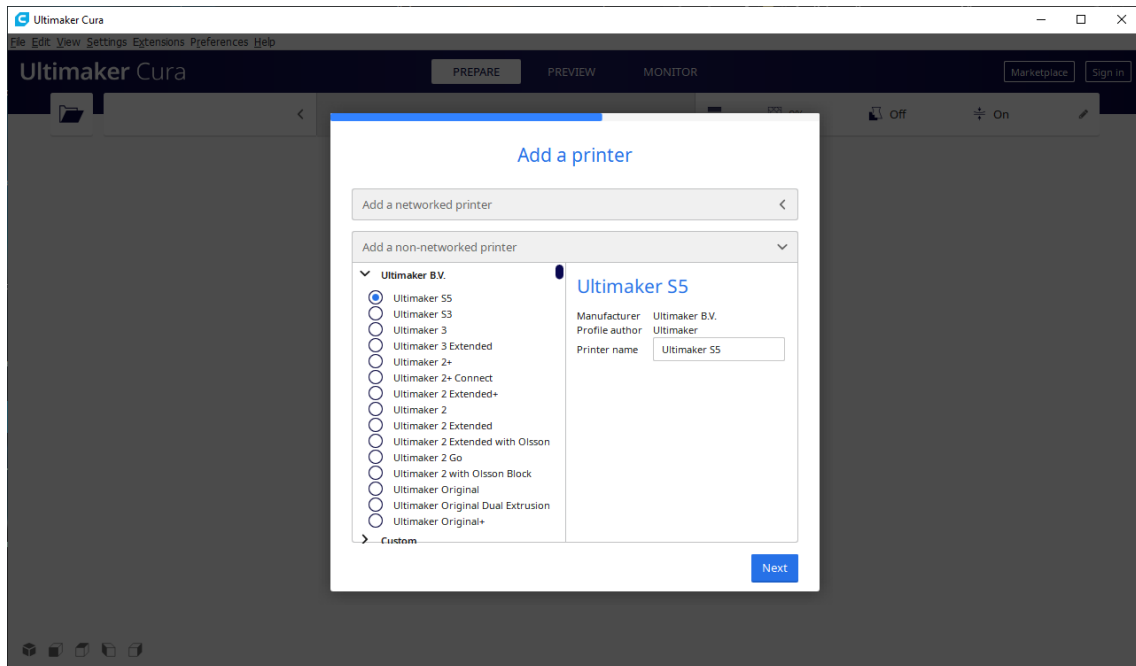
Open Cura 4.8



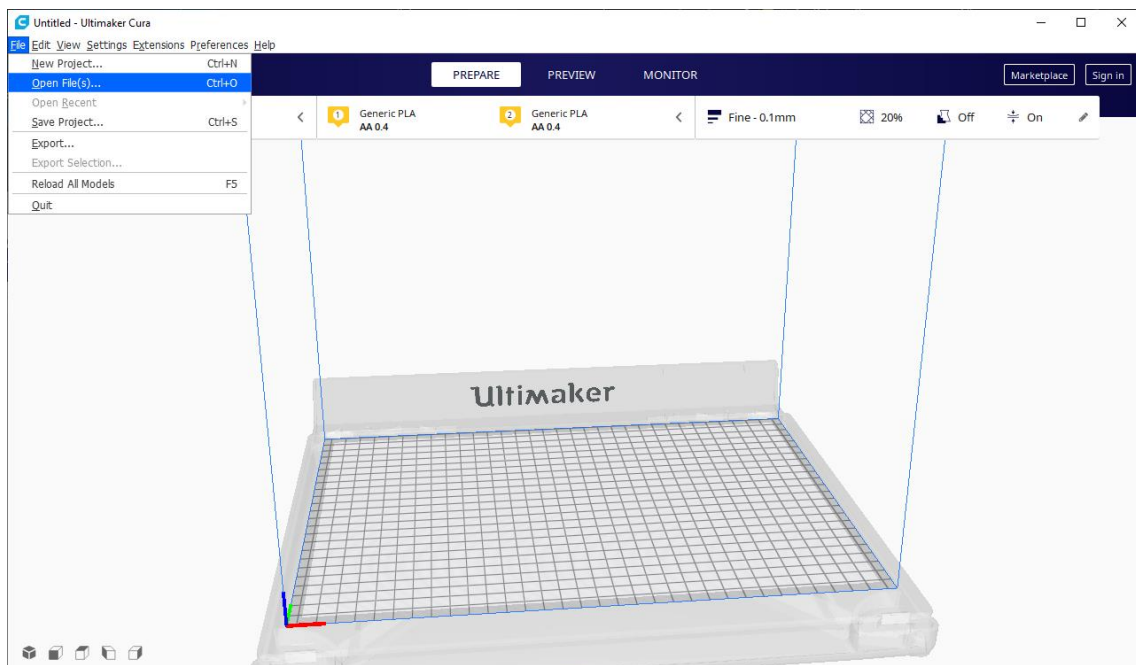
Press the “Get started” button, then “Agree”, then “Next” until you reach the following screen



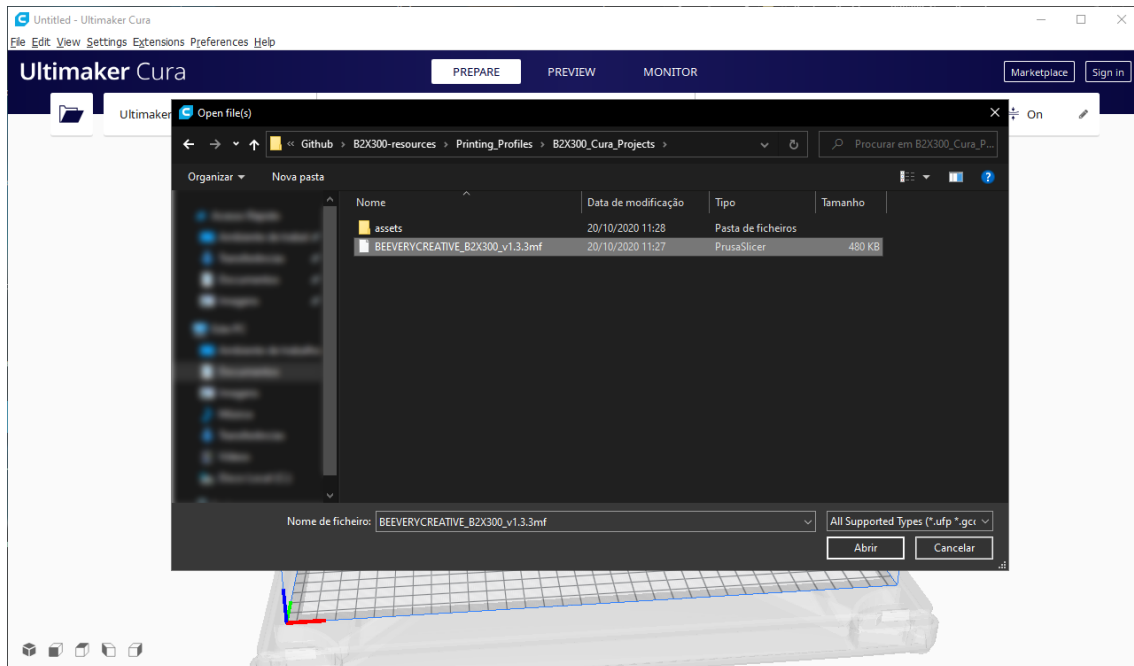
Press the “Skip” button, then select “Add a non-networked printer” and select any printer, for example “Ultimaker S5” is used in this tutorial, this is required in order to allow the program to import other profiles



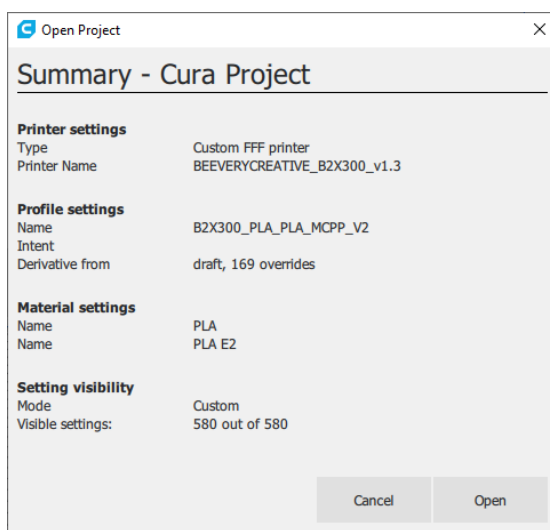
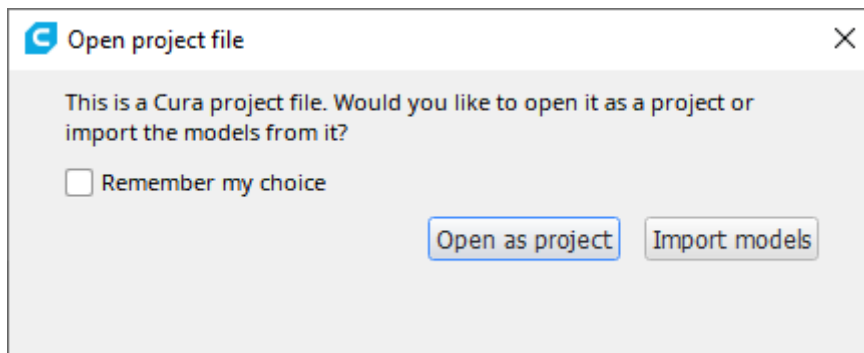
Wait for the profile to finish loading, then go to “File” and select the option “Open File(s)”



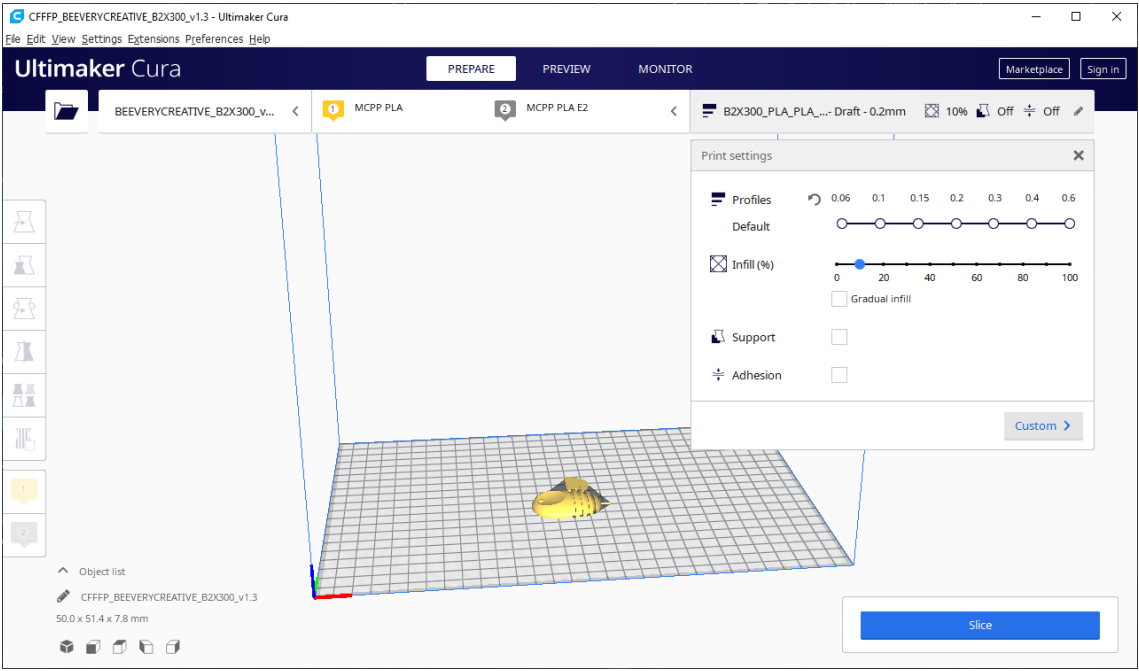
Open the file named “BEEVERYCREATIVE_B2X300_v1.3.3mf” available inside the B2x300 resources files downloaded earlier, inside the folder “Printing profiles/B2X300_Cura_Projects”



Select the “Open as project” option, then click “Open”



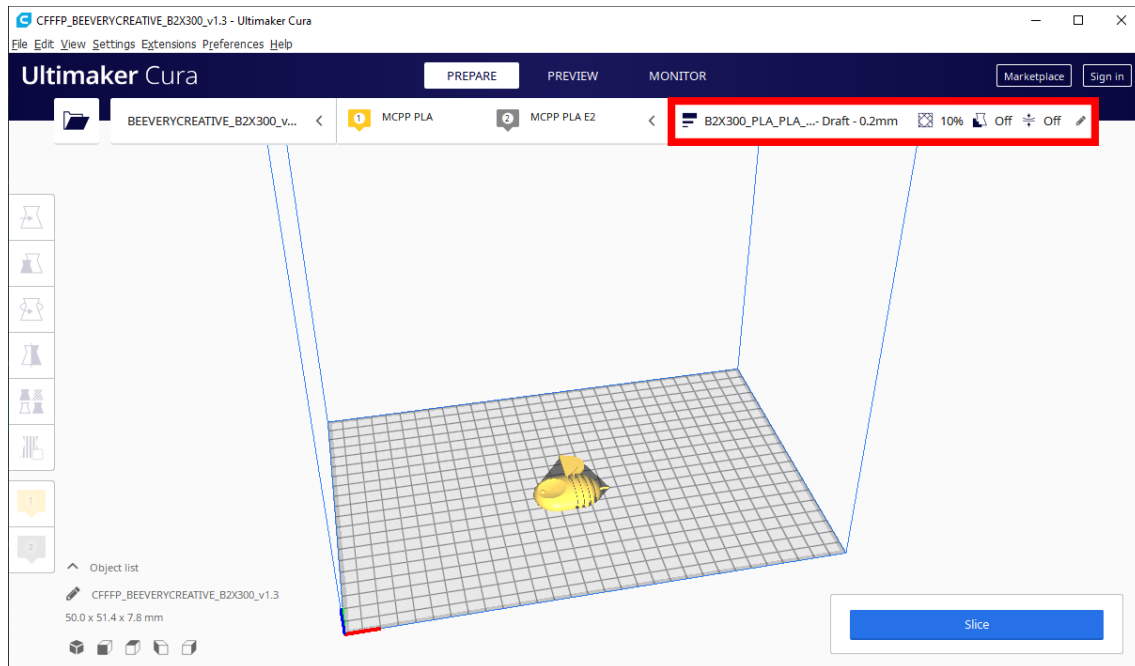
After these steps, the B2X300 printer is configured for usage with E1 using PLA, you can test the printer with the attached Bee STL file



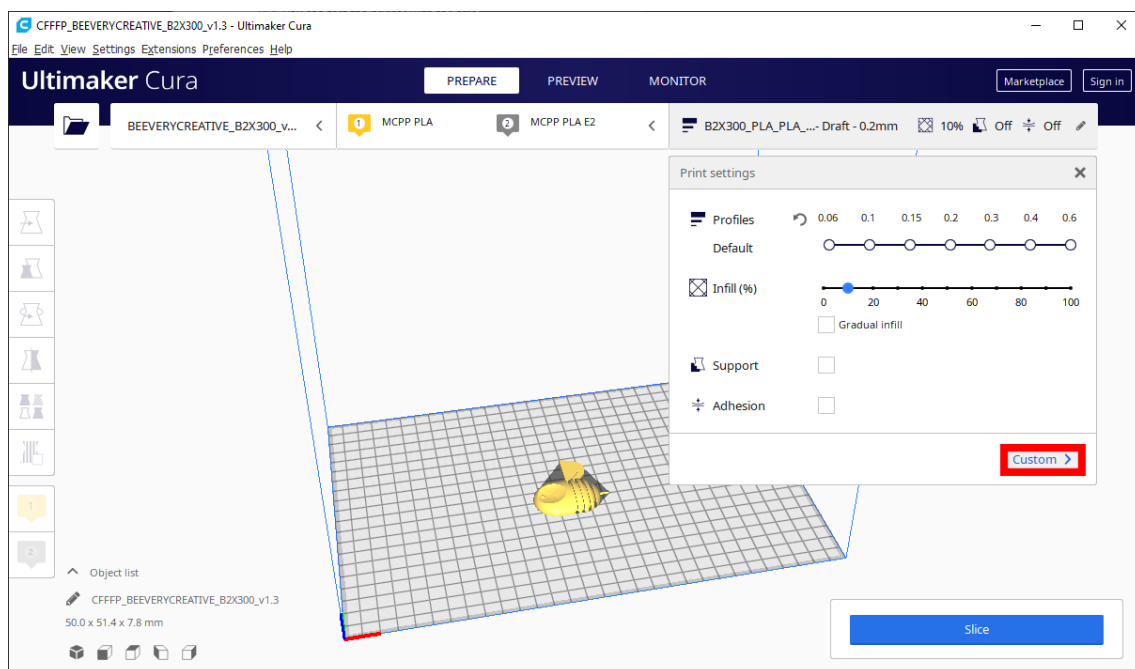
Configuring B2x300 printer for dual extrusion with PLA

Due to a bug Cura has on printer profile importation only the E1 profile is imported with the printer, as such we need to re-import the profile to ensure E2 can work as expected.

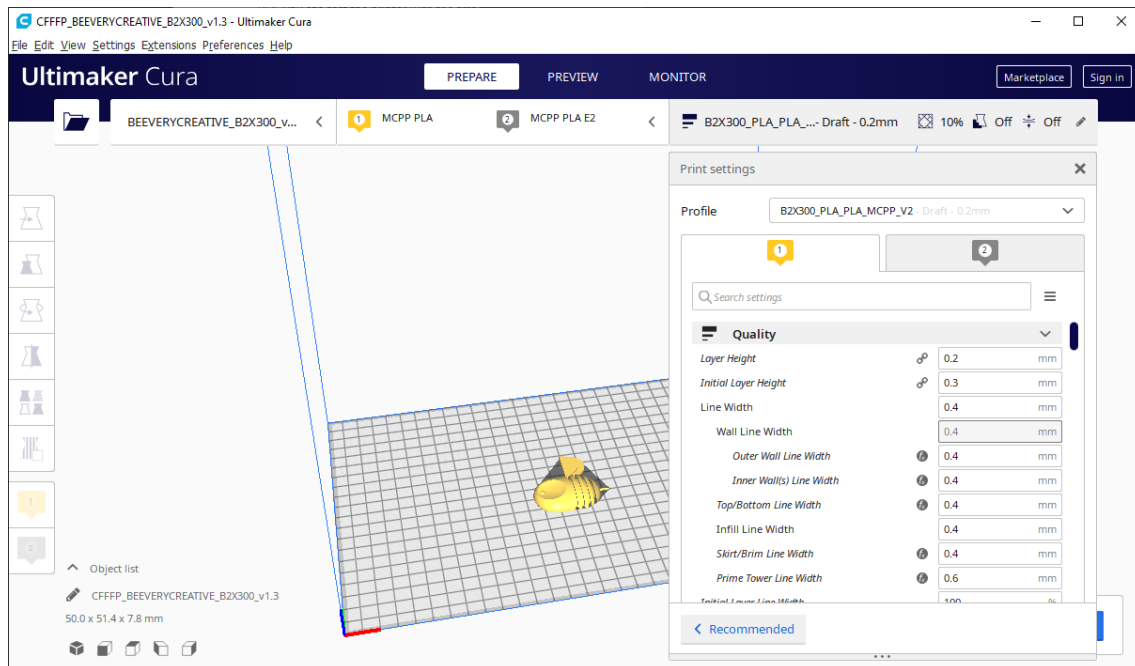
Ensure the print settings tab is open clicking the highlighted area



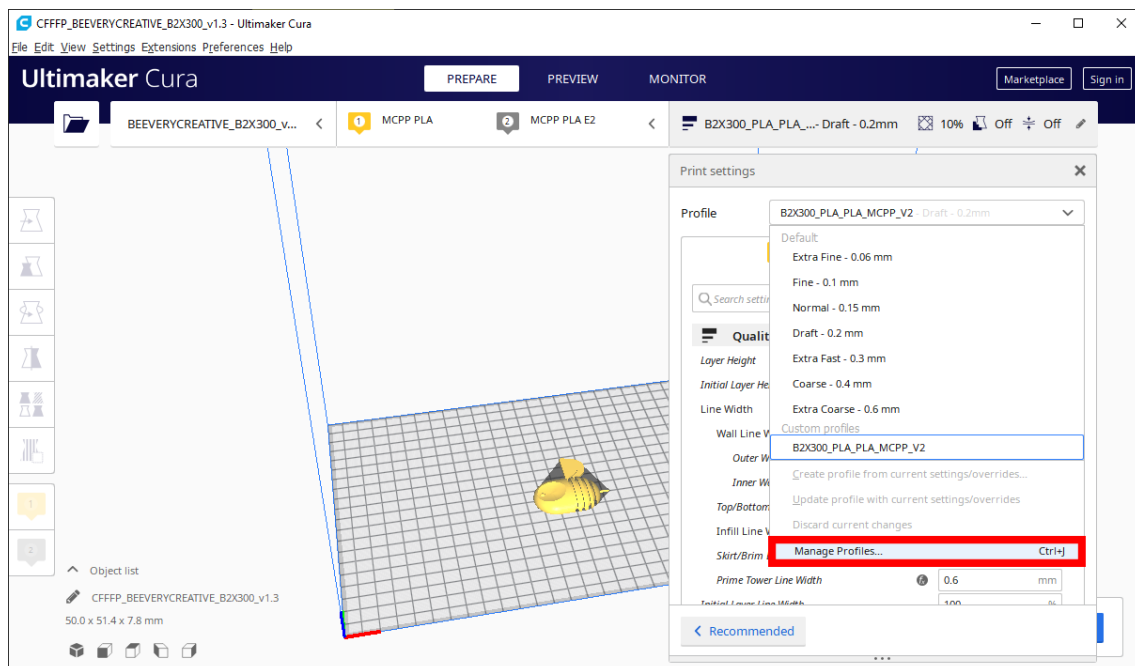
Click on “Custom”



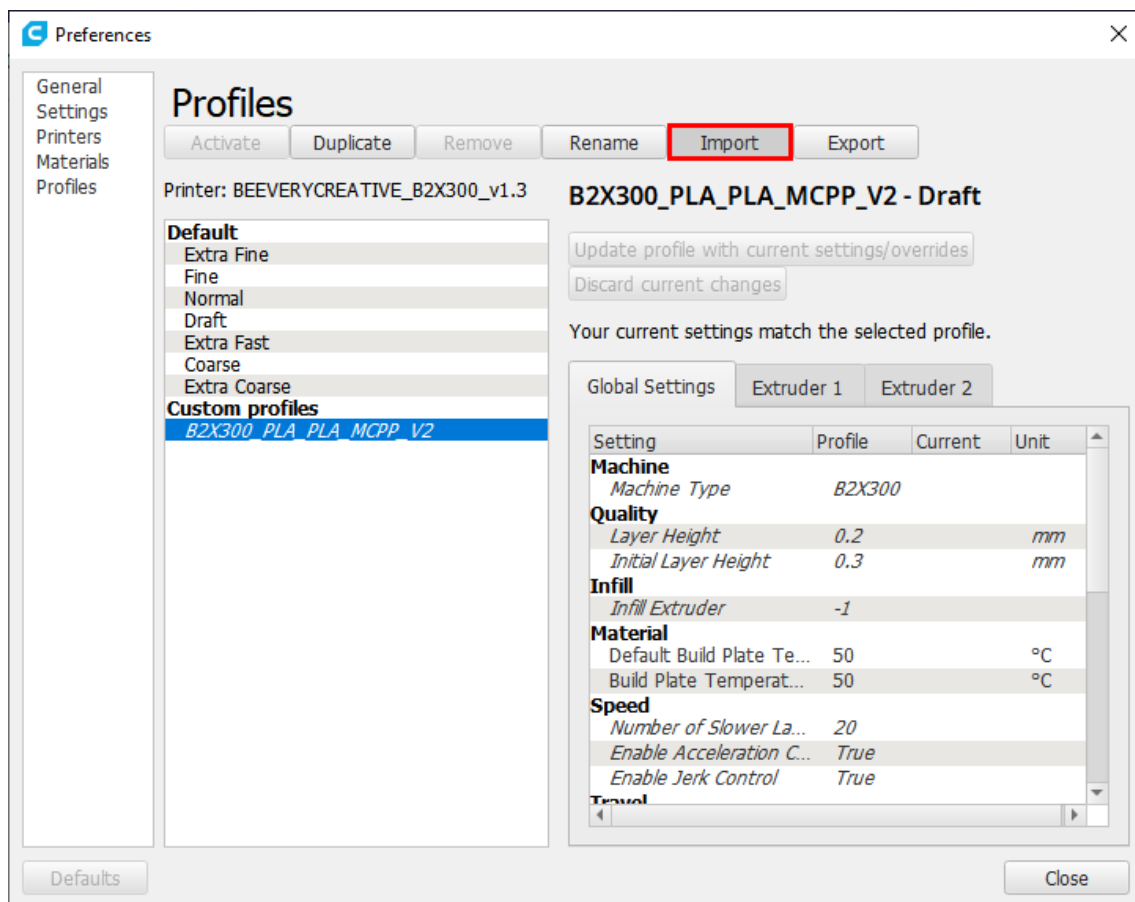
Now the advanced settings should be available



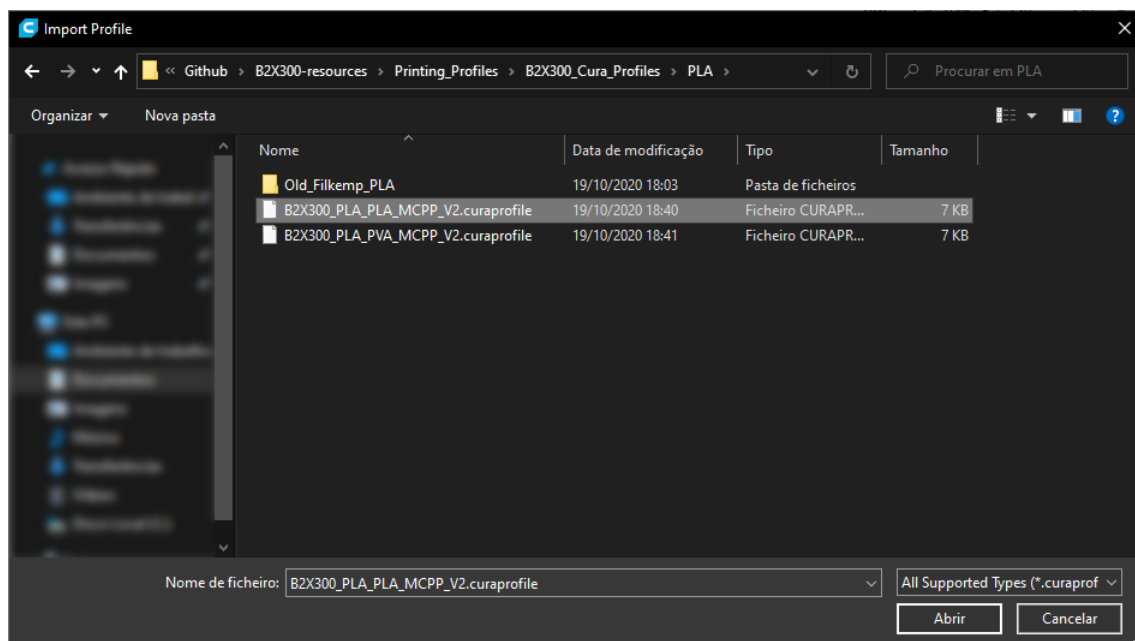
Press the drop-down list and select the “Manage Profiles ...” option



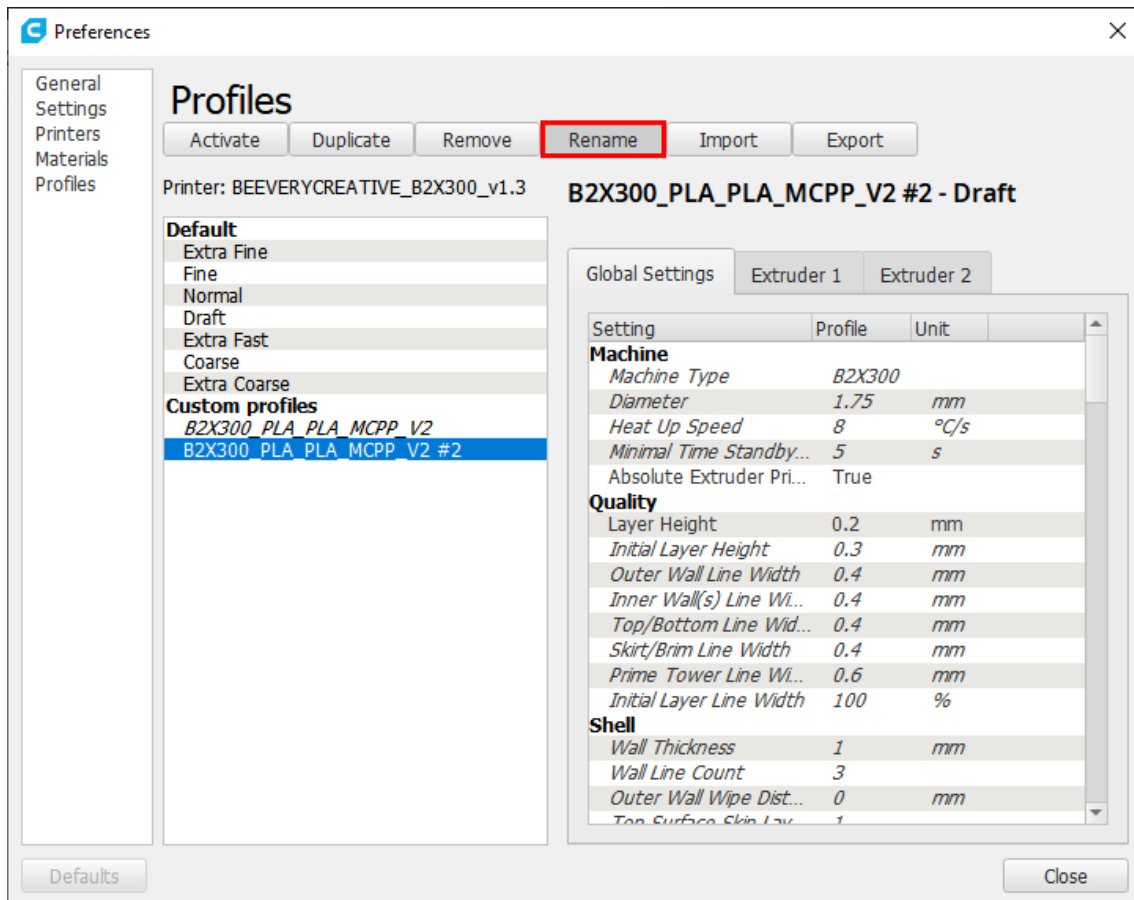
Press the import button on the top



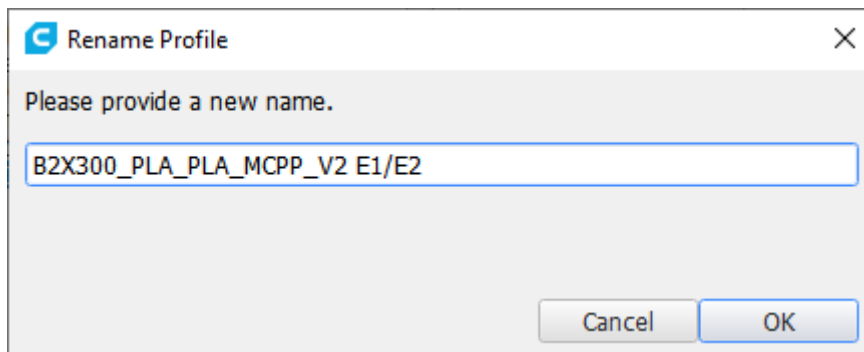
Select the file “B2X300_PLA_PLA_MCPP_V2.curaprofile” available on the B2x300 resources in the folder “Printing_Profiles/B2X300_Cura_Profiles/PLA”



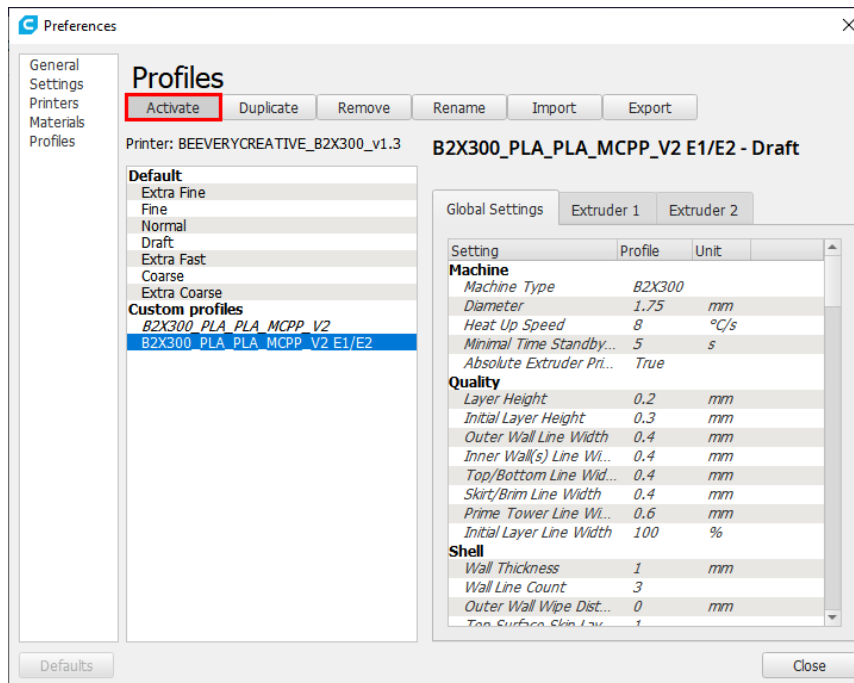
Select the profile named “B2X300_PLA_PLA_MCPP_V2 #2” and press the “Rename” button



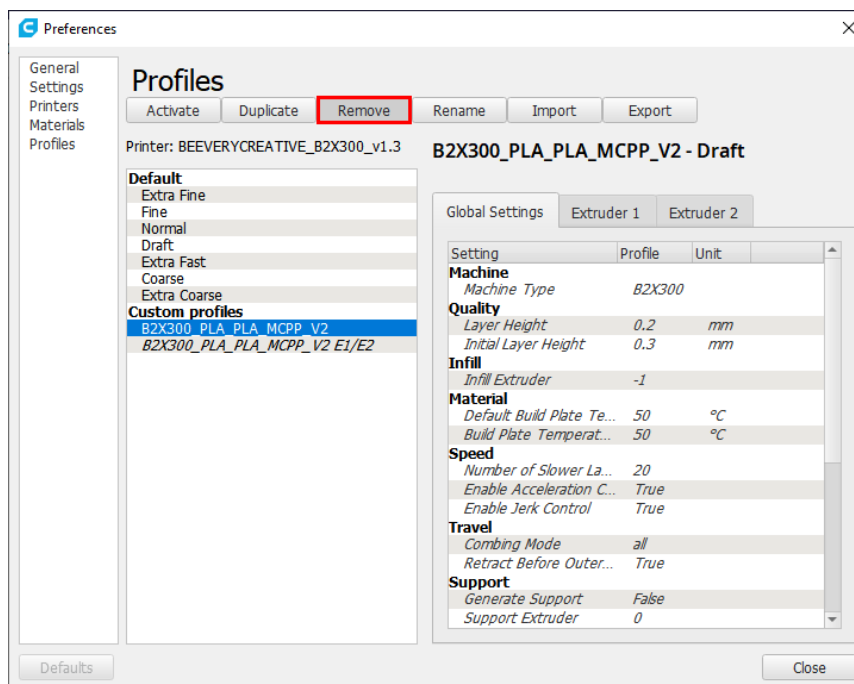
Change the name to “B2X300_PLA_PLA_MCPP_V2 E1/E2”



Select the profile named “B2X300_PLA_PLA_MCPP_V2 E1/E2” and press the “Activate” button on top



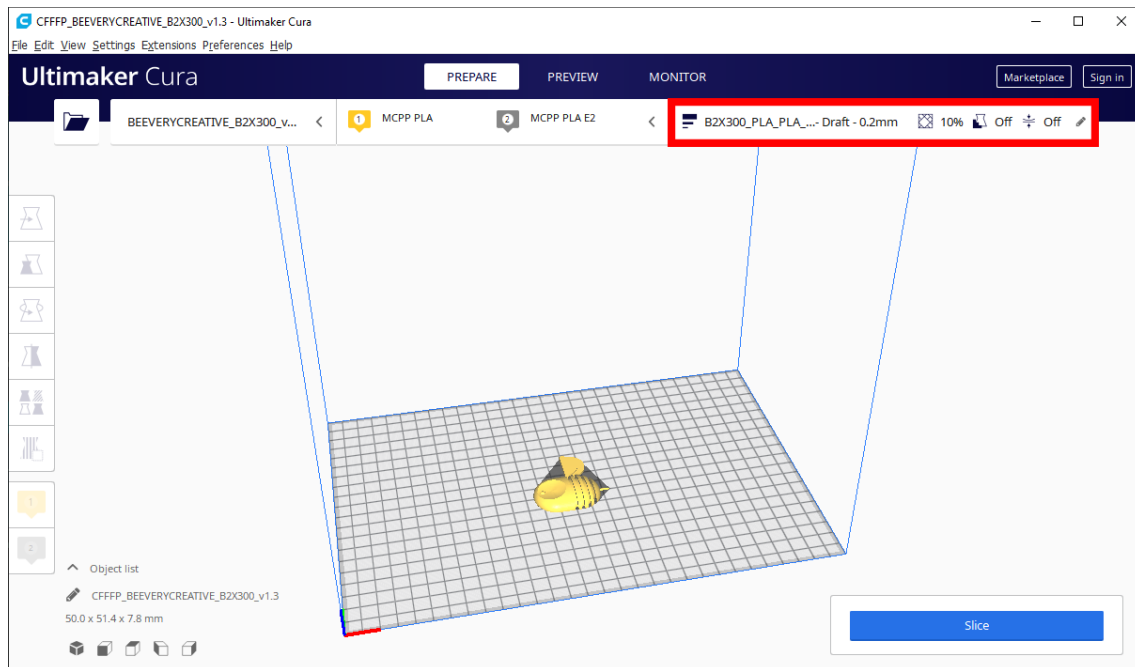
Select the profile named “B2X300_PLA_PLA_MCPP_V2” and press the “Remove” button on top



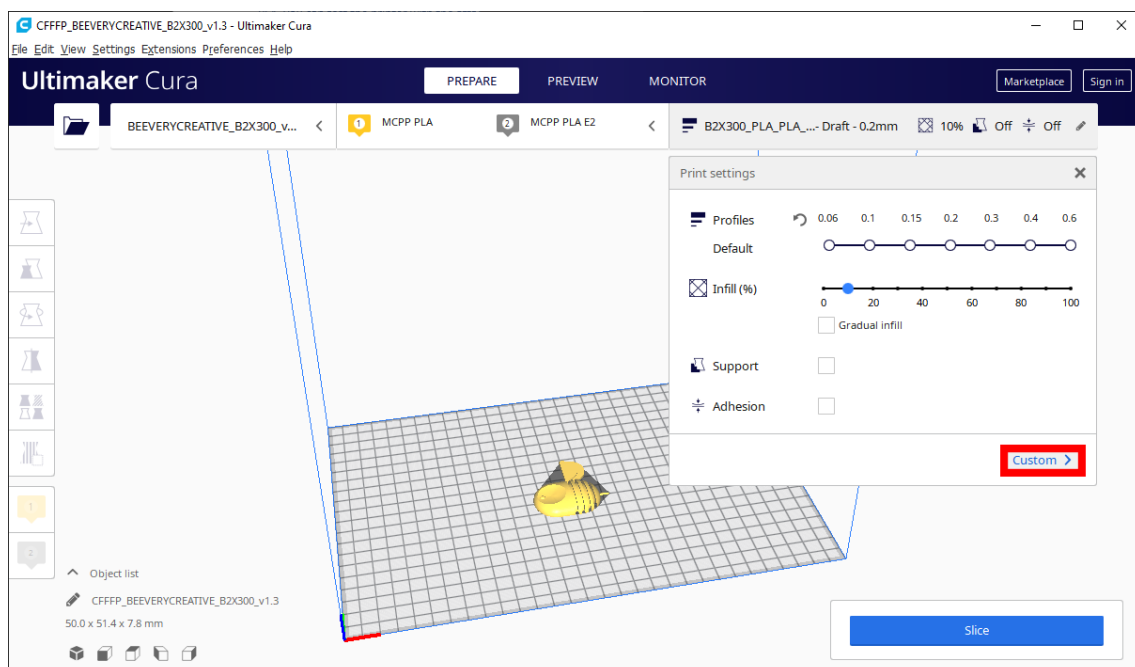
After these procedures, the correct profile for E1 and E2 for PLA is imported

Importing filament profiles for B2x300

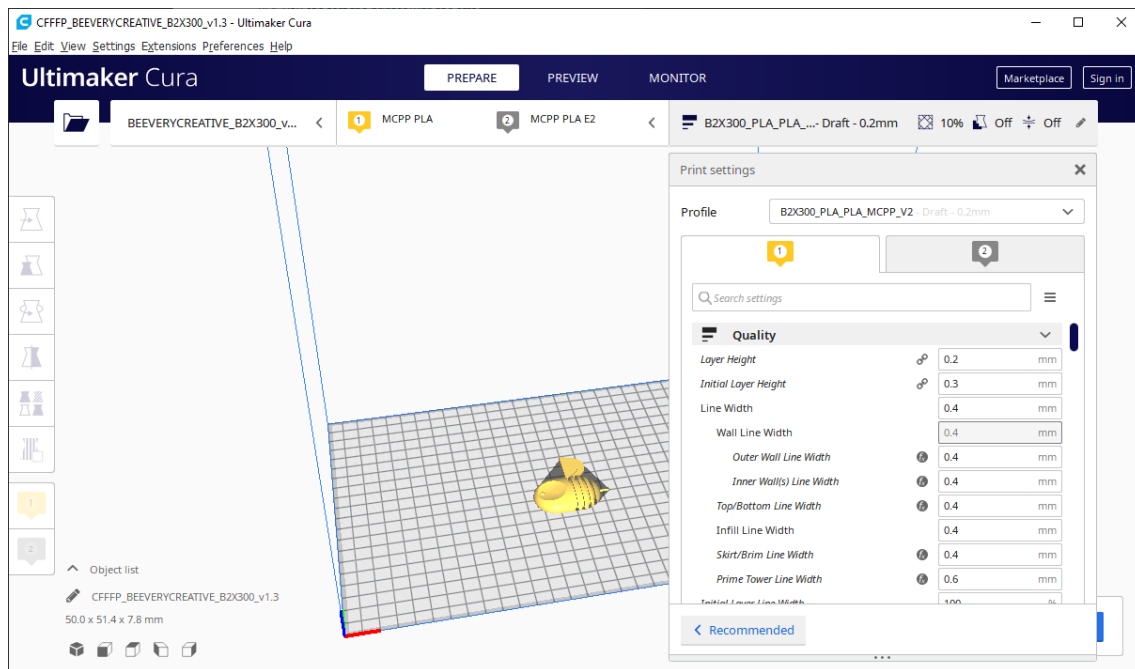
Ensure the print settings tab is open clicking the highlighted area



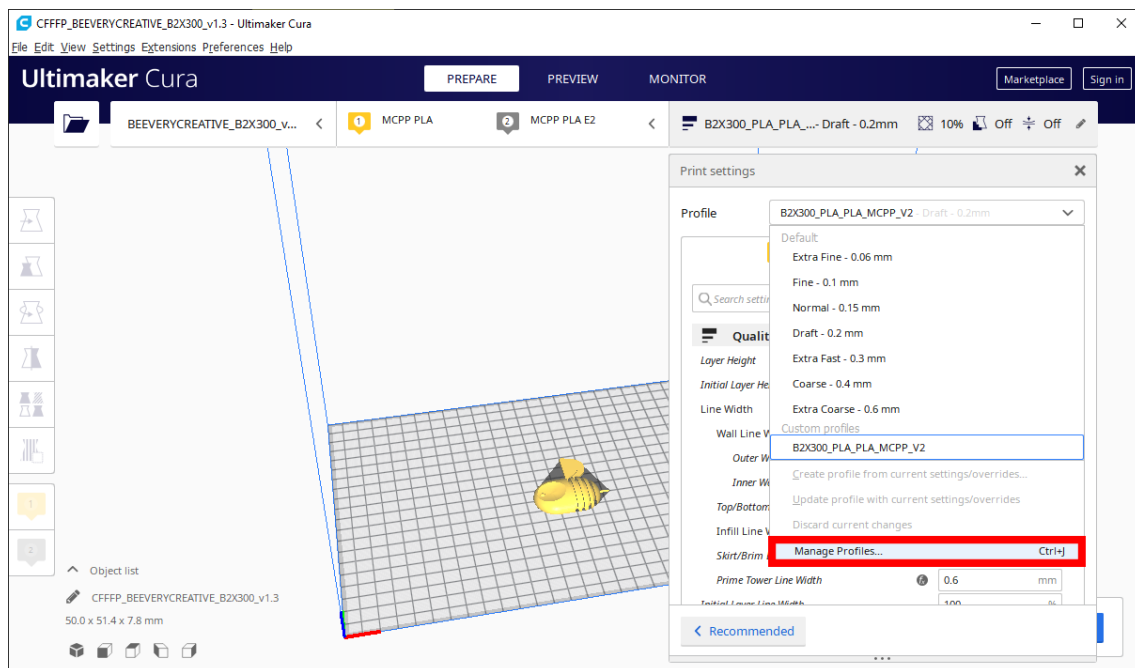
Click on “Custom”



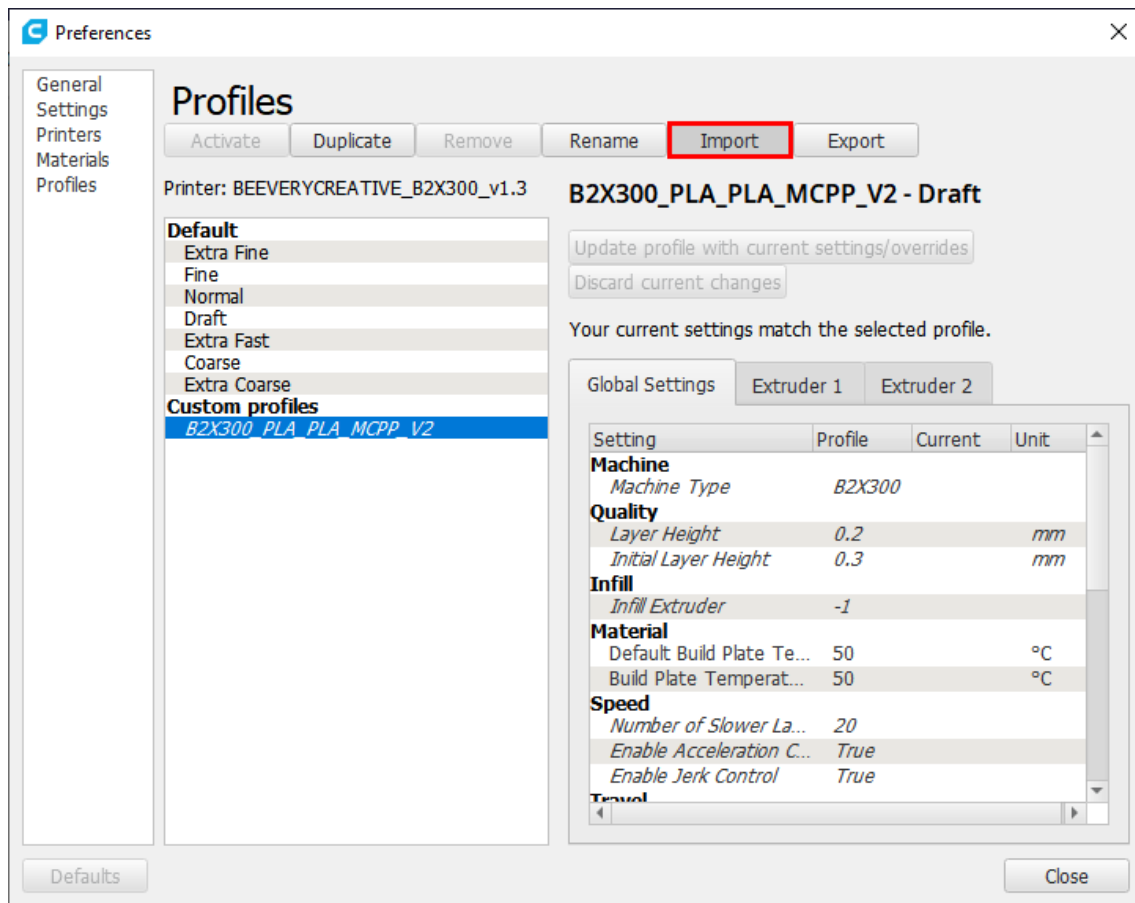
Now the advanced settings should be available



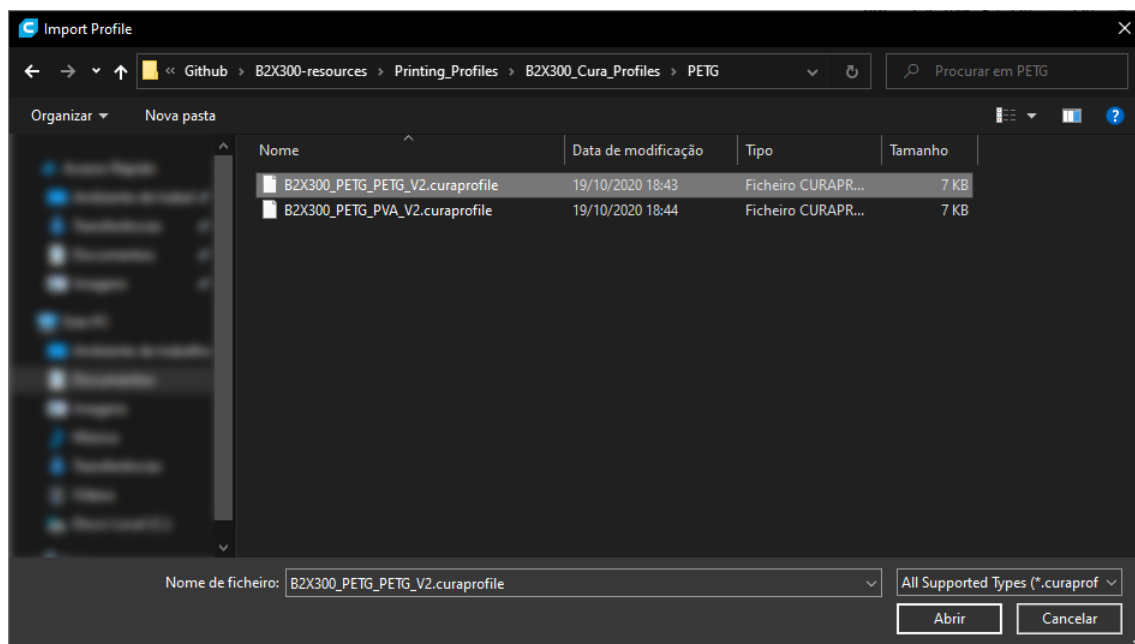
Press the drop-down list and select the “Manage Profiles ...” option



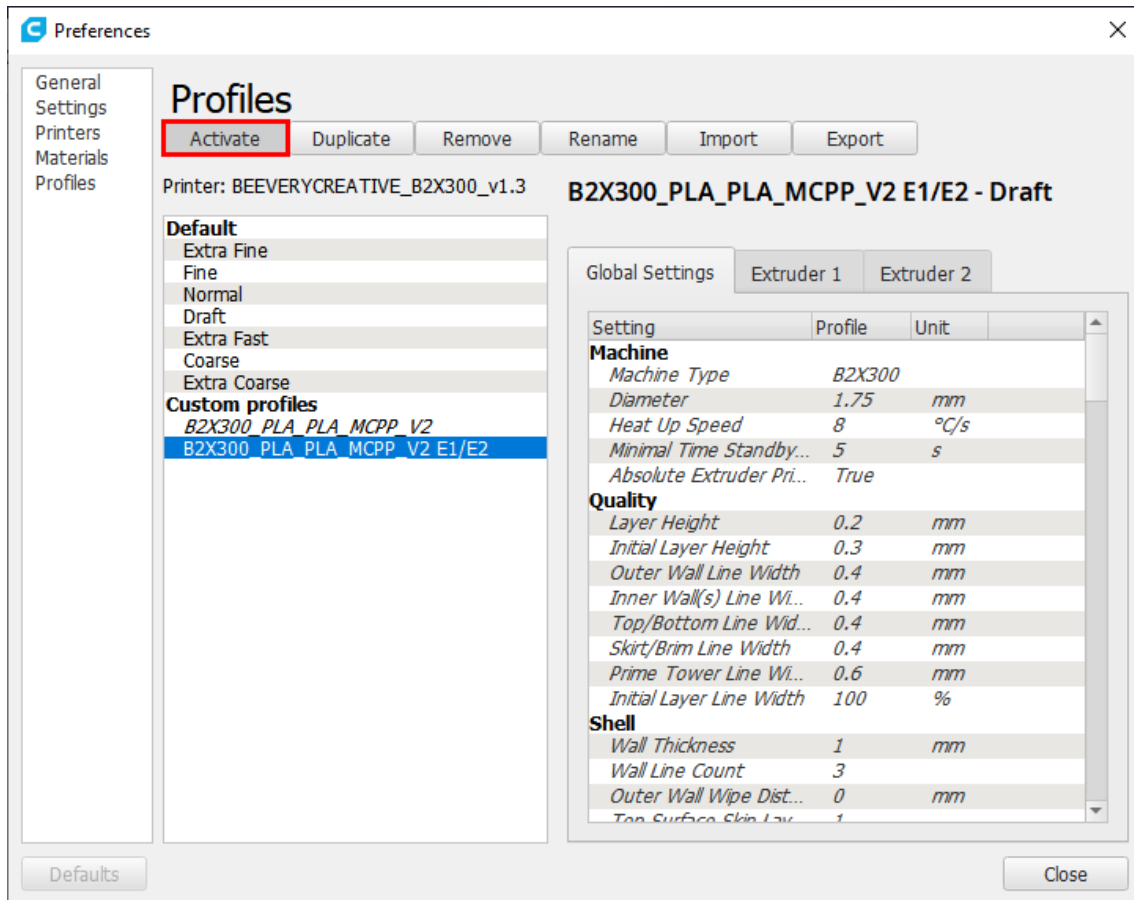
Press the import button on the top



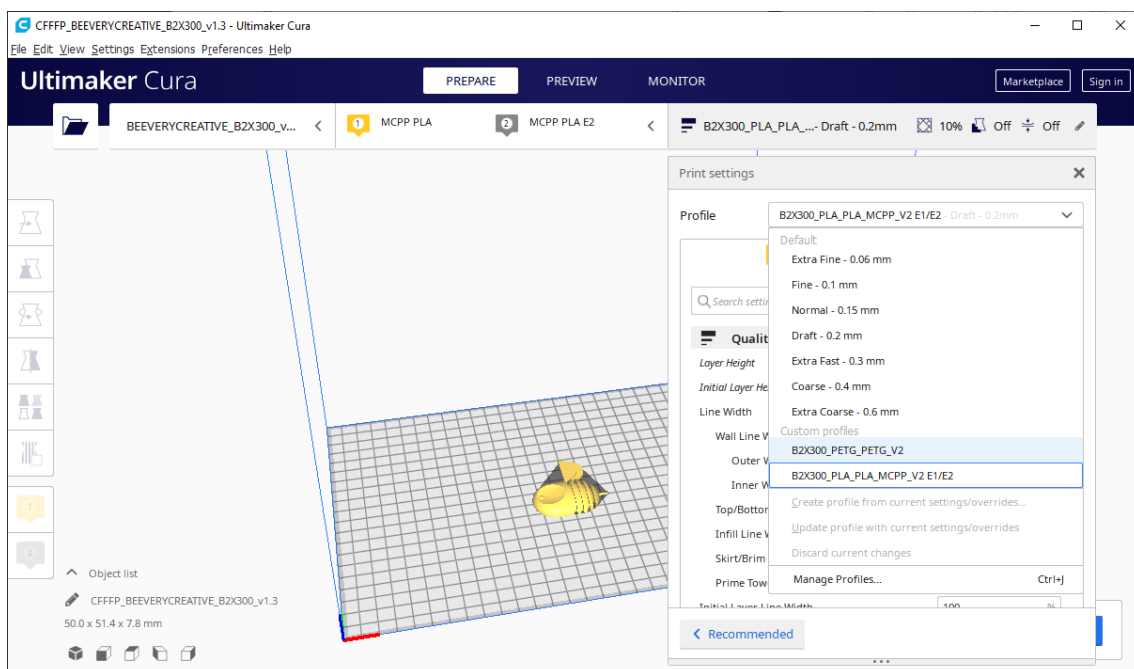
Select the desired profile from the B2x300 resources files, available in the folder "Printing_Profiles/ B2X300_Cura_Profiles" the press okay. In this example we are importing the PETG_PETG profile



In order to select the profile to be use when printing you can either select the profile name on the list then press the “Activate” button on the profile preferences window



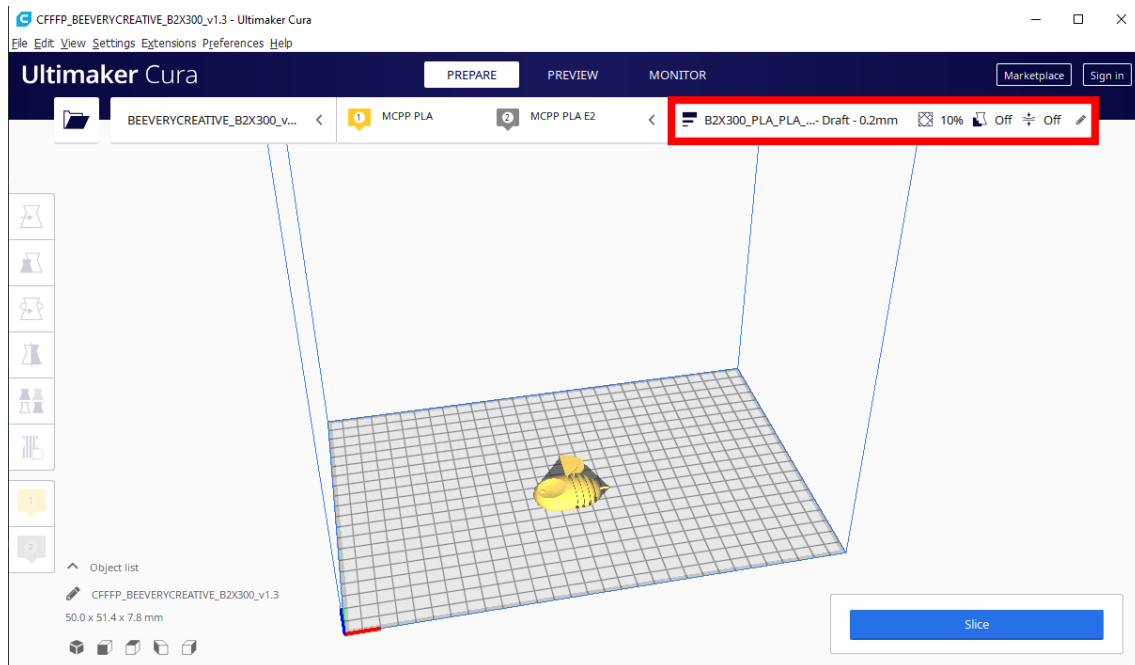
Or Select the desired profile from drop-down list on the print settings



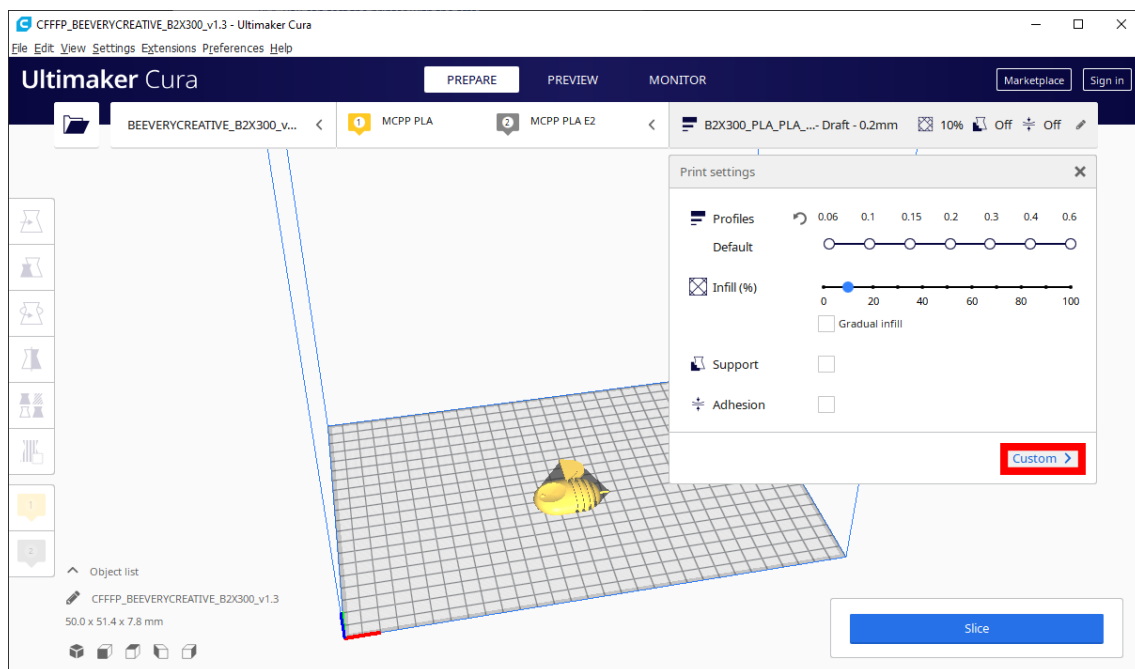
Configuring E2 as main

This chapter will teach you how to configure E2 as main so you can use it to print the parts instead of being the secondary extruder.

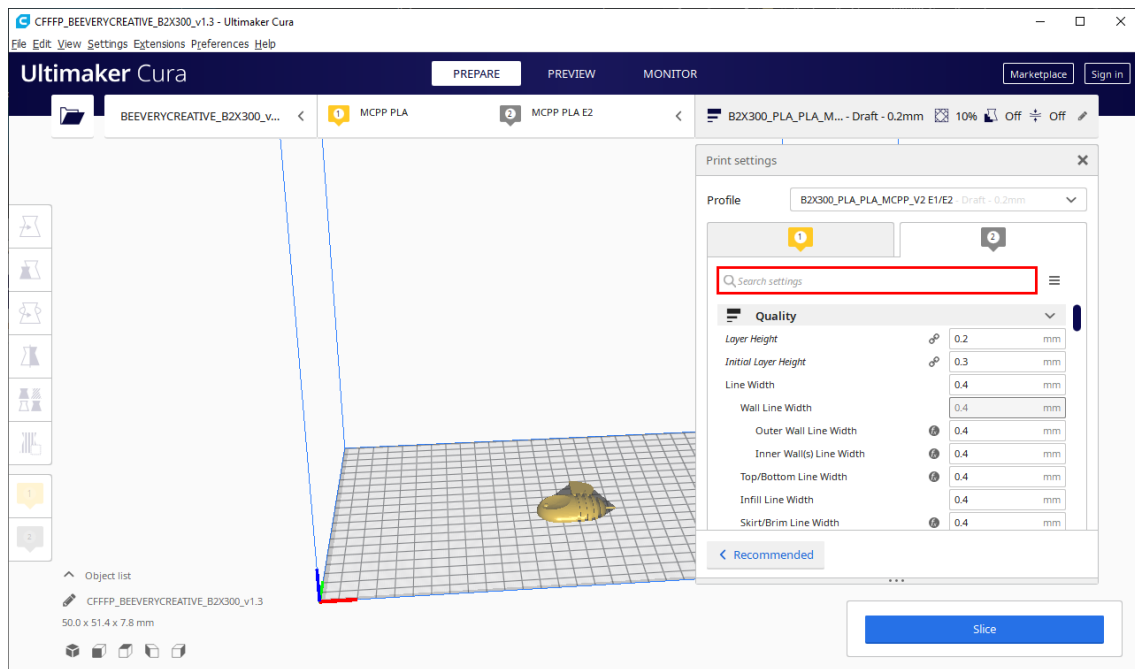
Ensure the print settings tab is open clicking the highlighted area



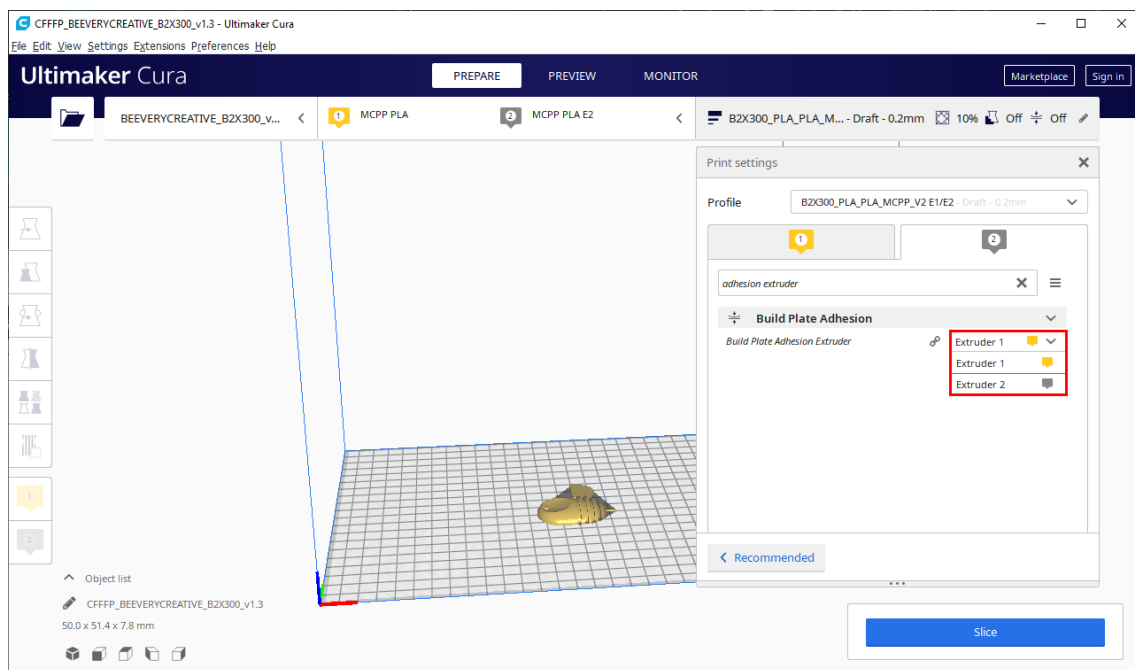
Click on “Custom”



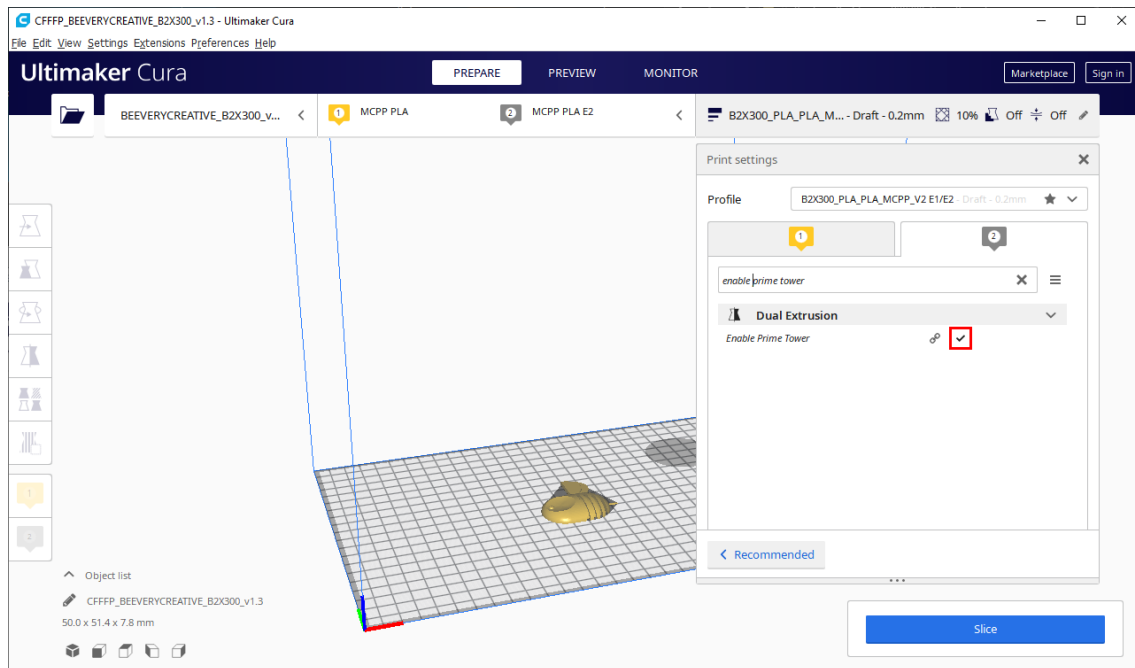
Click on the highlighted text box



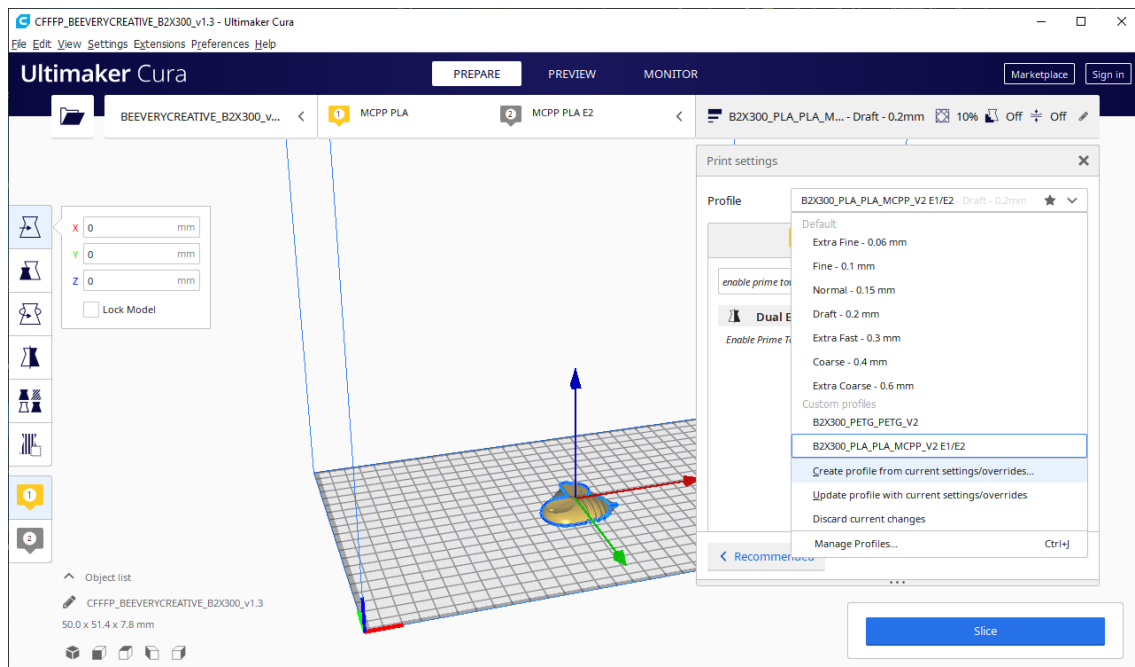
Write “adhesion extruder” then change the setting from “Extruder 1” to “Extruder 2”



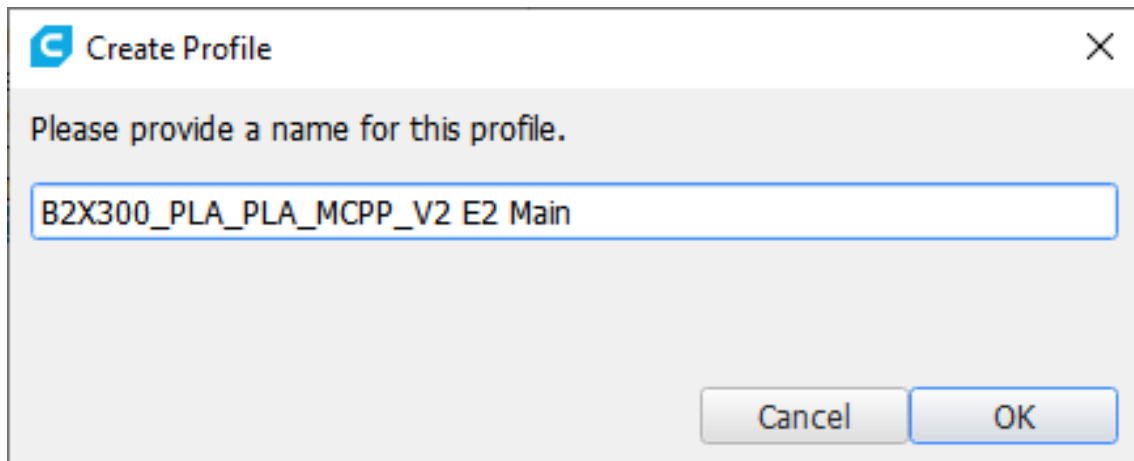
Click the search box once again and write “enable prime tower” then uncheck the option



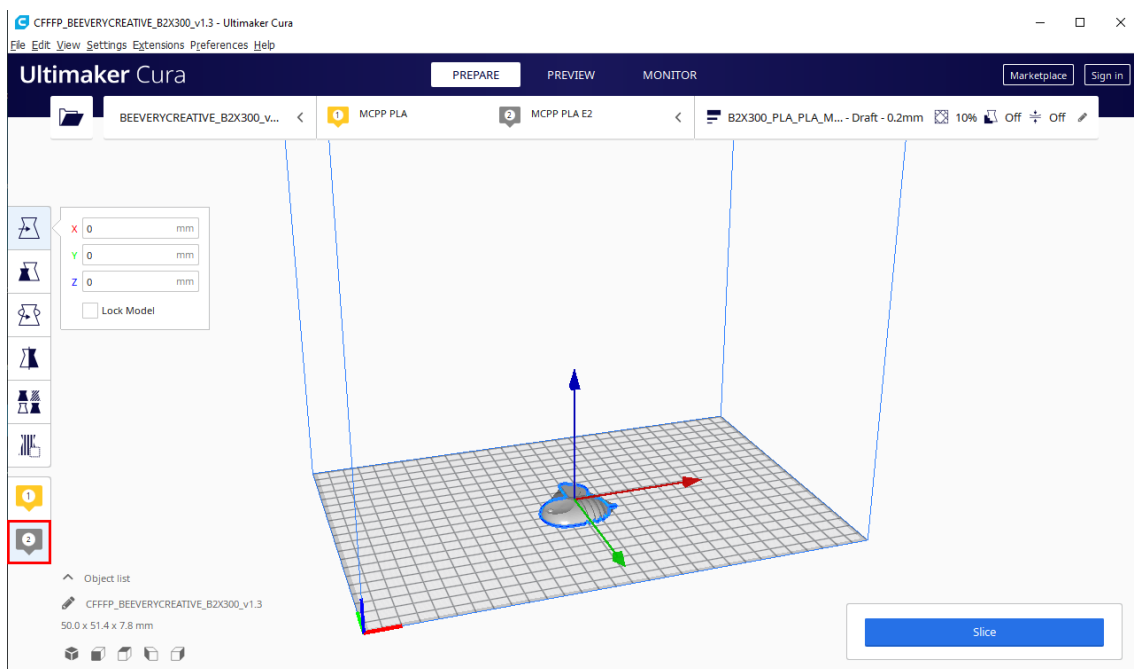
Press the drop-down list with the available profiles and select the option “Create profile from current settings/overrides...”



Write down the name for the E2 main profile, we recommend leaving the profile name unchanged and adding “E2 main” to the end



Now we need to set the item to be printed to use Extruder 2, to do that please press on the model on the build plate, the model must be selected, or the option will be grayed out, then press the button “2” on the left of the screen, the model should turn gray confirming the change



Now you can slice the file as usual and the printer will use Extruder 2 to print.

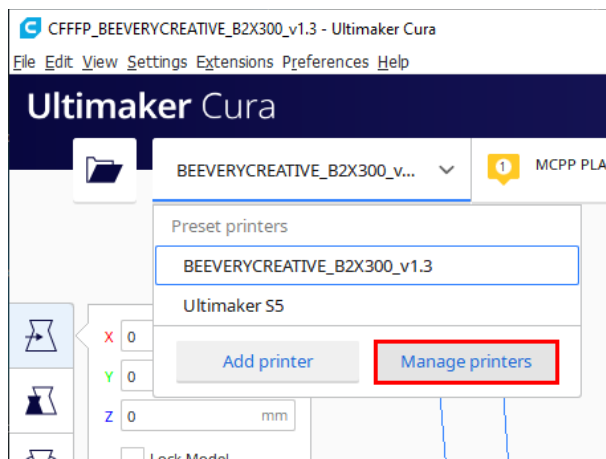
Disabling one extruder

In some cases, due to damage to the Extruder's wirings the printer will give a "Heating ERROR" when you try to print with the undamaged extruder, in order to fix this, we will need to make some changes to the printer profile in order not to send any commands to the damaged extruder.

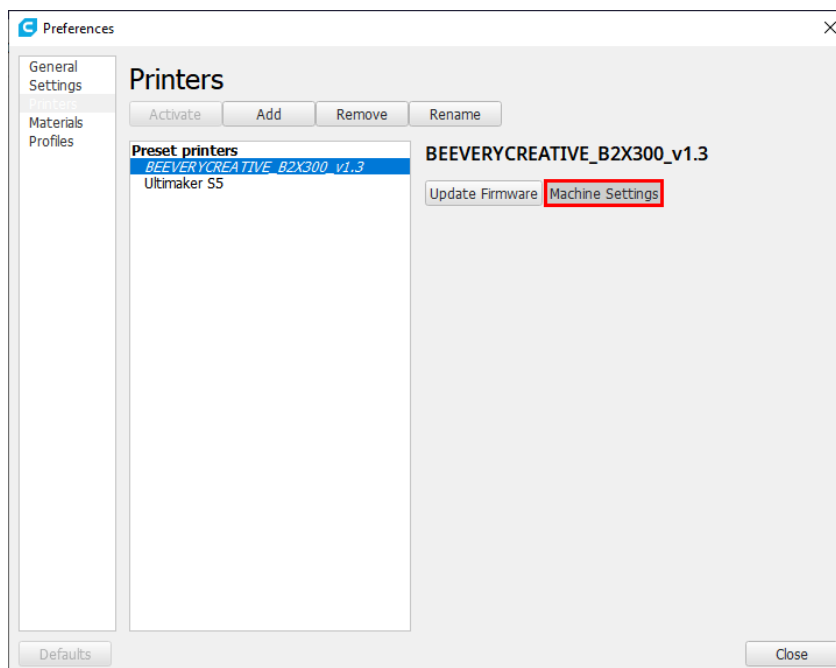
This procedure is not necessary if the printer is working as expected it is only needed in very specific use cases in which there was damage to the extruder cables.

In case of doubts about this please contact custome_service@beeverycreative.com

Open the printer settings by pressing the highlighted box



Press the "Machine Settings" button



In order to disable Extruder 1 please delete the highlighted lines

Machine Settings

BEEVERYCREATIVE_B2X300_v1.3

Printer	Extruder 1	Extruder 2
Printer Settings	Printhead Settings	
X (Width)	300 mm	X min -20 mm
Y (Depth)	200 mm	Y min -10 mm
Z (Height)	310 mm	X max 10 mm
Build plate shape	Rectangular	Y max 10 mm
Origin at center	<input type="checkbox"/>	Gantry Height 310 mm
Heated bed	<input checked="" type="checkbox"/>	Number of Extruders 2
Heated build volume	<input type="checkbox"/>	
G-code flavor	Marlin	
Start G-code	End G-code	
<pre>M104 S0 T0 M104 S0 T1 M104 S160 M140 S{material_bed_temperature} M117 Heating Bed... G28 ; Home M190 S{material_bed_temperature}</pre>	<pre>M104 T0 S0 ; turn off Ext1 temperature M104 T1 S0 ; turn off Ext2 temperature M140 S0 ; turn off Bed temperature G1 X150 Y200 ; home X axis and push y to the M84 ; disable motors M300 P(10) S(16) ; finished beep M117 Finished!</pre>	

Close

In order to disable Extruder 2 please delete the highlighted lines

Machine Settings

BEEVERYCREATIVE_B2X300_v1.3

Printer	Extruder 1	Extruder 2
Printer Settings	Printhead Settings	
X (Width)	300 mm	X min -20 mm
Y (Depth)	200 mm	Y min -10 mm
Z (Height)	310 mm	X max 10 mm
Build plate shape	Rectangular	Y max 10 mm
Origin at center	<input type="checkbox"/>	Gantry Height 310 mm
Heated bed	<input checked="" type="checkbox"/>	Number of Extruders 2
Heated build volume	<input type="checkbox"/>	
G-code flavor	Marlin	
Start G-code	End G-code	
<pre>M104 S0 T0 M104 S0 T1 M104 S160 M140 S{material_bed_temperature} M117 Heating Bed... G28 ; Home M190 S{material_bed_temperature}</pre>	<pre>M104 T0 S0 ; turn off Ext1 temperature M104 T1 S0 ; turn off Ext2 temperature M140 S0 ; turn off Bed temperature G1 X150 Y200 ; home X axis and push y to the M84 ; disable motors M300 P(10) S(16) ; finished beep M117 Finished!</pre>	

Close