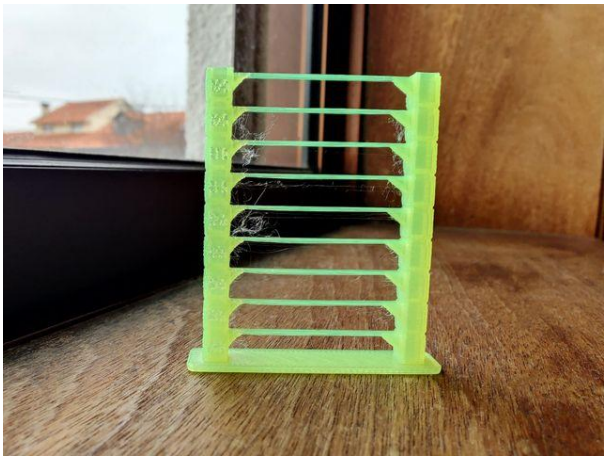
Printables by JOSEF PRUSA



Quick Temp Tower

Celta

VIEW IN BROWSER

updated 28. 2. 2022 | published 6. 12. 2021

Summary

A Temperature tower that prints in less than an hour. Quick filament temperature calibration.

0.80 hrs	3 pcs	0.20 mm	0.40 mm	PLA PET Flex	4 g	Prusa MK3/S/S+

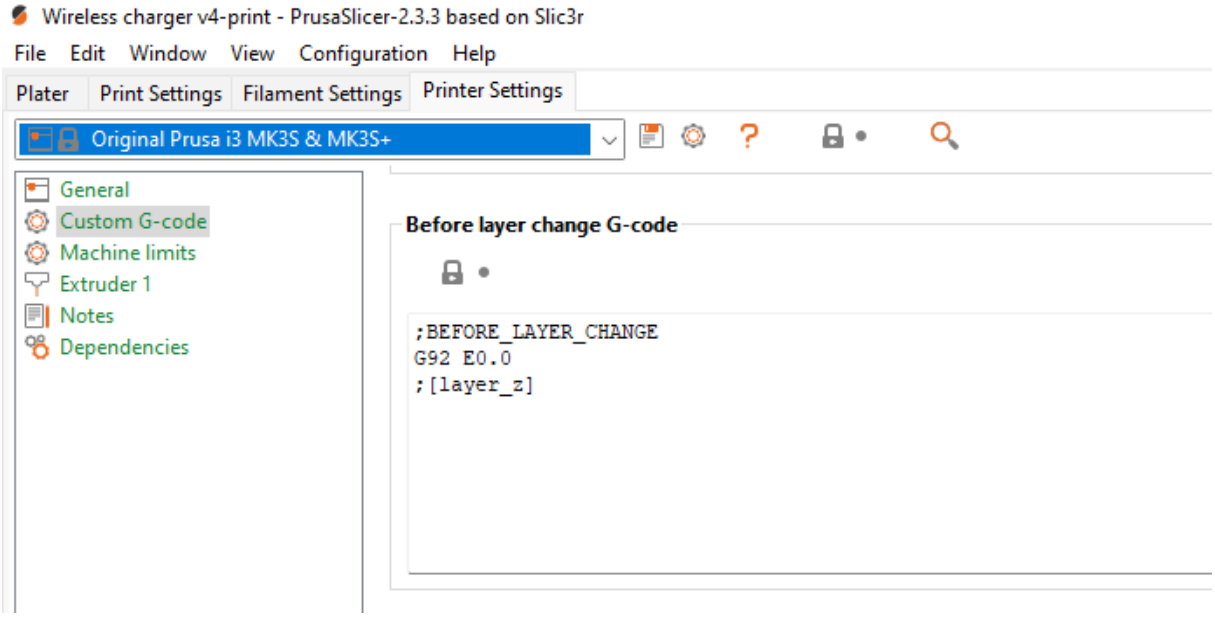
3D Printers > Test Models

Tags: filament calibration temp temperature calibrationtest temperaturetower eiffeltower

I wanted a temperature tower that was fast as most of the models would take several hours. Found this model by spiga76, changed the PLA model a bit to go from 230-190 instead of 240-200 and added labels for filament types.

Printing

For easier configuration, we can apply G-code to "Printer Settings" > “Custom G-code” > “Before layer change G-code” (Using PrusaSlicer).



↳ Prusa Slicer configuration

PLA

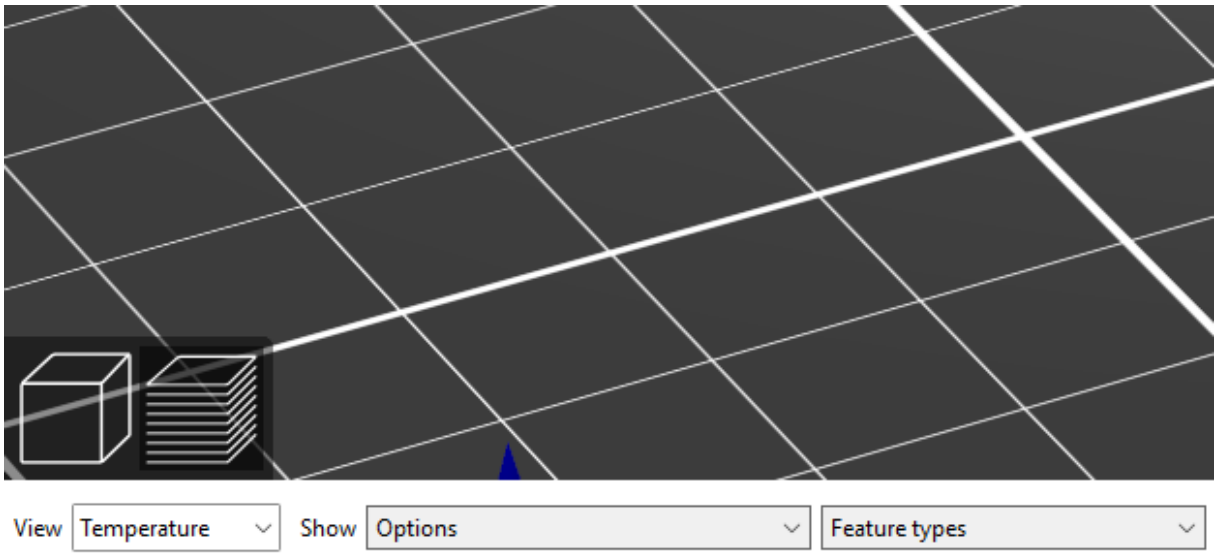
;BEFORE_LAYER_CHANGE G92 E0.0 ;[layer_z] {if layer_z>=0.00 && layer_z<7.60} M104 S230 M109 S230 {endif} {if layer_z>=7.60 && layer_z<13.80} M104 S225 M109 S225 {endif} {if layer_z>=13.80 && layer_z<20.00} M104 S220 M109 S220 {endif} {if layer_z>=20.00 && layer_z<26.20} M104 S215 M109 S215 {endif} {if layer_z>=26.20 && layer_z<32.40} M104 S210 M109 S210 {endif} {if layer_z>=32.40 && layer_z<38.60} M104 S205 M109 S205 {endif} {if layer_z>=38.60 && layer_z<44.80} M104 S200 M109 S200 {endif} {if layer_z>=44.80 && layer_z<51.00} M104 S195 M109 S195 {endif} {if layer_z>=51.00} M104 S190 M109 S190 {endif}

PETG/FLEX

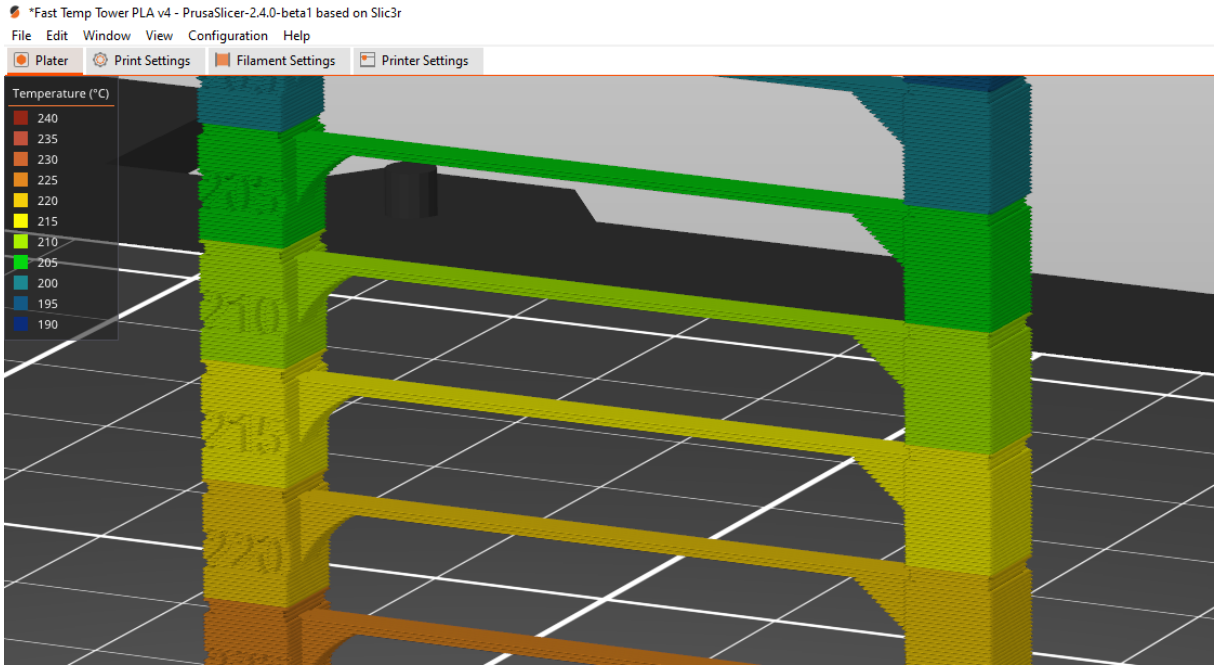
;BEFORE_LAYER_CHANGE G92 E0.0 ;[layer_z] {if layer_z>=0.00 && layer_z<7.60} M104 S260 M109 S260 {endif} {if layer_z>=7.60 && layer_z<13.80} M104 S255 M109 S255 {endif} {if layer_z>=13.80 && layer_z<20.00} M104 S250 M109 S250 {endif} {if layer_z>=20.00 && layer_z<26.20} M104 S245 M109 S245 {endif} {if layer_z>=26.20 && layer_z<32.40} M104 S240 M109 S240 {endif} {if layer_z>=32.40 && layer_z<38.60} M104 S235 M109 S235 {endif} {if layer_z>=38.60 && layer_z<44.80} M104 S230 M109 S230 {endif} {if layer_z>=44.80 && layer_z<51.00} M104 S225 M109 S225 {endif} {if layer_z>=51.00} M104 S220 M109 S220 {endif}

Temperature preview

Starting version 2.4 (PrusaSlicer), there is a temperature preview of the model, this helps verify the correct configuration of the test model.



↳ PrusaSlicer preview configuration



↳ PrusaSlicer temperature preview

Credits

Fast PLA and PETG Temp Tower by spiga76

Model files

FLEX

2 files

fast-temp-tower-flex.3mf

v3

fast-temp-tower-flex.stl

v3

PETG

2 files

fast-temp-tower-petg.3mf

v1

fast-temp-tower-petg.stl

v1

PLA

2 files

fast-temp-tower-pla.3mf

v4

fast-temp-tower-pla.stl

v4

Print files

fast-temp-tower-pla-v4_02mm_pla_mk3s_48m.gcode

PLA 0.40 mm 0.20 mm 0.80 hrs 4 g Prusa MK3/S/S+

fast-temp-tower-flex-v3_02mm_flex_mk3s_48m.gcode

Flex 0.40 mm 0.20 mm 0.80 hrs 4 g Prusa MK3/S/S+

fast-temp-tower-petg-v1_02mm_petg_mk3s_48m.gcode

PET 0.40 mm 0.20 mm 0.80 hrs 3 g Prusa MK3/S/S+

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