



Tri-fold Foam Posterboard Printer Enclosure



SenjiEQ

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Summary

Tri-fold Foam Posterboard Printer Enclosure... Despite the wonky-ness it works well and I can see into the enclosure

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I wanted a tall flat-packable removable enclosure with a transparent front for my ender 3 s1 pro... So instead of doing the sensible thing of buying a tent or using a cardboard box I decided to invest way too much time making a solution that works probably about the same.

I used 36x48" trifold foam poster boards cut to size, velcro straps, and 3d printed brackets and caps.

3 x **36x48" trifold poster boards** \$28

8 x **Strong velcro strips** \$8

1 x **24x36" 1/8" thick Polycarbonate Panel** \$23

Total = \$59

The enclosure keeps operating temps around 90F (32C).

With this enclosure I have been able to successfully print ABS parts without warping.

3D printed parts I used:

2 x corner for the rear corners

3 x straight braced 1 for the middle rear and 1 for each side

2 x front brace for the edge next to the polycarbonate

4 x straight_double_210mm for the rear middle seam

1 x straight_double_trim cut to final size needed to plug the hole (optional)

2 x cap_174mm for the rear (optional)

6 x cap_152mm for the sides (optional)

Model files



straight_double_trim.stl



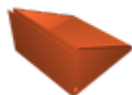
cap_174mm.stl



cap_152mm.stl



straight_braced.stl



front_brace.stl



straight_double_210mm.stl



corner.stl

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