



Braille Training Cell - 6MM

 **3D Printy**

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Summary

Teaching aid for learning to read and write braille with large 6mm diameter buttons.

[Learning](#) > [Other 3D Objects for Learning](#)

Tags: [teaching](#) [tpu](#) [teachingtool](#) [braille](#) [3dprinty](#)
[braillecell](#)

Teaching aid for learning to read and write braille with large 6mm diameter dots.

<https://youtu.be/Z9aghYXRcNk>

Customization Case Size

- Single cell
- 8-cell

Case Style

- Hard Case with embedded TPU inserts
- Fully TPU Case

Button Options

- Flat
- Round

Printing

- All parts can be printed without supports
- Cases are printed upside down (walls facing up) so there is no bridging
- 92A durometer or softer TPU is recommended for all flexible parts
- Print buttons in PLA or other rigid material
- If printing the hard case on a multi-material printer, turn on “Interface Shells” so the TPU gasket has a solid base to print on
- If printing the hard case on a single-material printer, pause the print just before the layer where the case begins to bridge. Insert the TPU gasket so that the top is entirely flush
- 2 perimeter walls is sufficient for all flexible parts, but additional perimeters may provide better results if the buttons feel too loose

Assembly

- Press fit buttons into the case.
- That's it!

Filament

You can get drastically different results depending on what filaments you use for the flexible parts of this design. This video by [Filament Stories](#) includes some recommended options.

https://www.youtube.com/shorts/OfIMXw4e_Sk

<https://youtu.be/8oy3ABtAt2E>

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Model files



Demo

2 files



demo-assembled.3mf

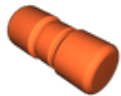


demo-assembled.stl



Buttons

2 files



button-flat.stl

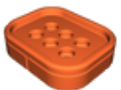


button-round.stl



TPU Case

2 files



tpu-case-single-cell.stl



tpu-case-8-cell.stl



Hard Case

3 files



hard-case-single-cell.stl



hard-case-8-cell.stl

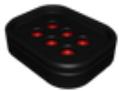


tpu-insert.stl



Print-in-Place Hard Case

2 files



print-in-place-hard-case-single-cell.3mf



print-in-place-hard-case-8-cell.3mf



Templates

1 file

template-all-files.step

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