



NeoTrellis M4 Bumper

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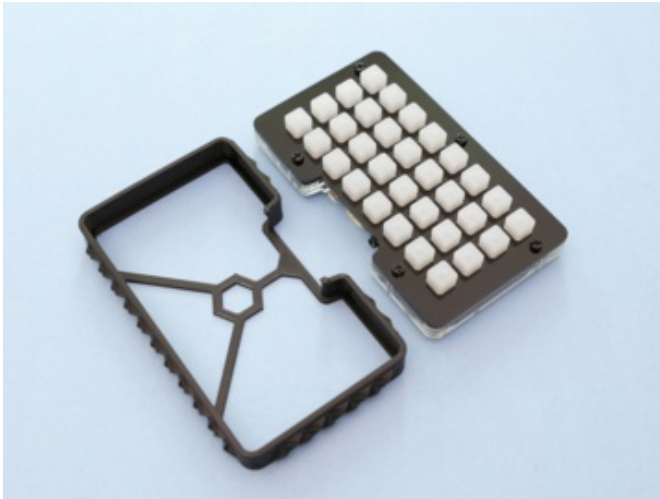


Last updated on 2018-12-05 02:19:51 PM UTC

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3D Printing



3D Printed Bumper

This is a simple 3d printed bumper for the Adafruit NeoTrellis M4 designed for flexible filaments. This provides protection and comfort to the acrylic case.



Flexible Filaments

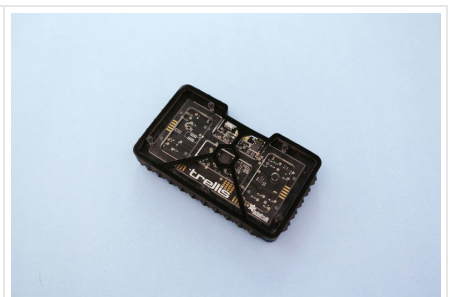
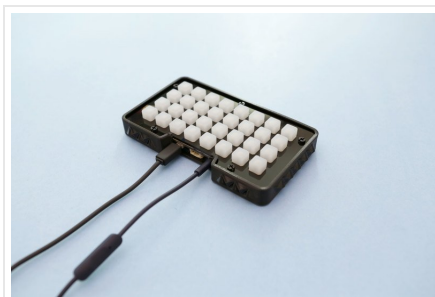
The bumper features a cut out on the back side for cables. The design is optimized for 3D printing using flexible filaments, such as [Cheetah](#) [Ninjaflex](#) (<https://adafru.it/vAn>) and does not require any support material.

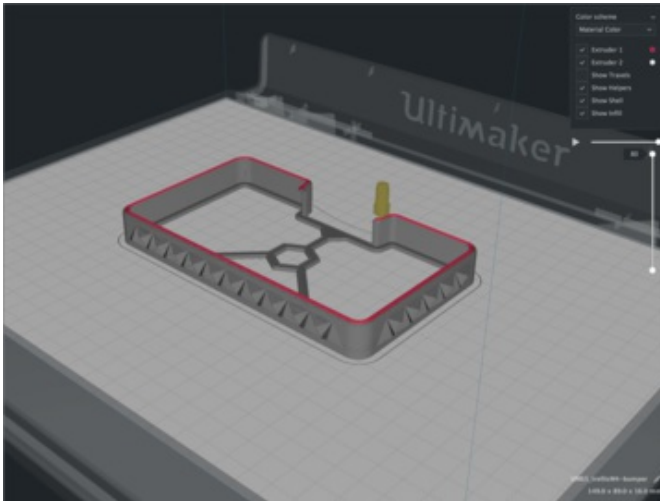
How to 3D Print Flexible Filament

Our learn guide will walk you through some common practices for 3D printing with flexible filaments successfully.

<https://adafru.it/tEB>

<https://adafru.it/tEB>





Slice Settings

Use these settings as reference. Values listed were used in [Ultimaker's CURA 3.X \(https://adafru.it/C26\)](https://adafru.it/C26) slicing software. This was 3d printed using an Ultimaker S5 and 3.

- Material Profile: TPU 95A
- .2 layer height / .35 Line Width
- 2 wall line count / 10% infill
- 220C/60C printer temp
- 8mm retraction distance /35mm/s retraction speed
- 25mm/s print speed (150mm travel)

<https://adafru.it/Ddj>

<https://adafru.it/Ddj>

Parts, Tools, Supplies

All we need for this project is the Adafruit NeoTrellis M4 Kit, flexible filament and a 3D printer.

- [Adafruit NeoTrellis M4 Kit \(https://adafru.it/Ddk\)](https://adafru.it/Ddk)
- [USB-C to MicroUSB cable \(https://adafru.it/Ddl\)](https://adafru.it/Ddl)
- [Flexible Filaments \(https://adafru.it/vAn\)](https://adafru.it/vAn)
- [Ultimaker 3 – 3D Printer \(https://adafru.it/xFQ\)](https://adafru.it/xFQ)
- [Flashforge MonoPrice Inventor II \(https://adafru.it/CF5\)](https://adafru.it/CF5)

Your browser does not support the video tag.

[Adafruit NeoTrellis M4 with Enclosure and Buttons Kit Pack](#)

\$59.95
OUT OF STOCK

OUT OF STOCK



Cheetah 3D Printer Filament - 3mm Diameter 1kg - Midnight

\$59.95
IN STOCK

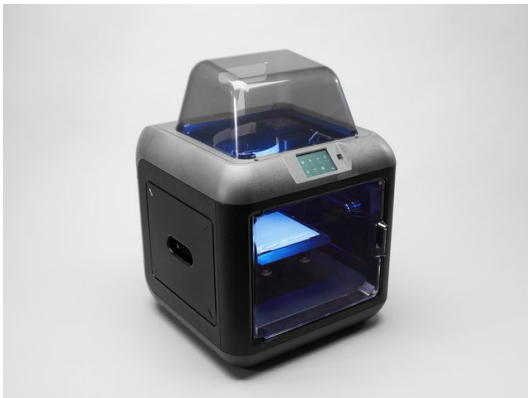
ADD TO CART

Ultimaker 3 - 3D Printer



\$3,495.00
IN STOCK

ADD TO CART



Monoprice Inventor II 3D Printer with Touchscreen and WiFi

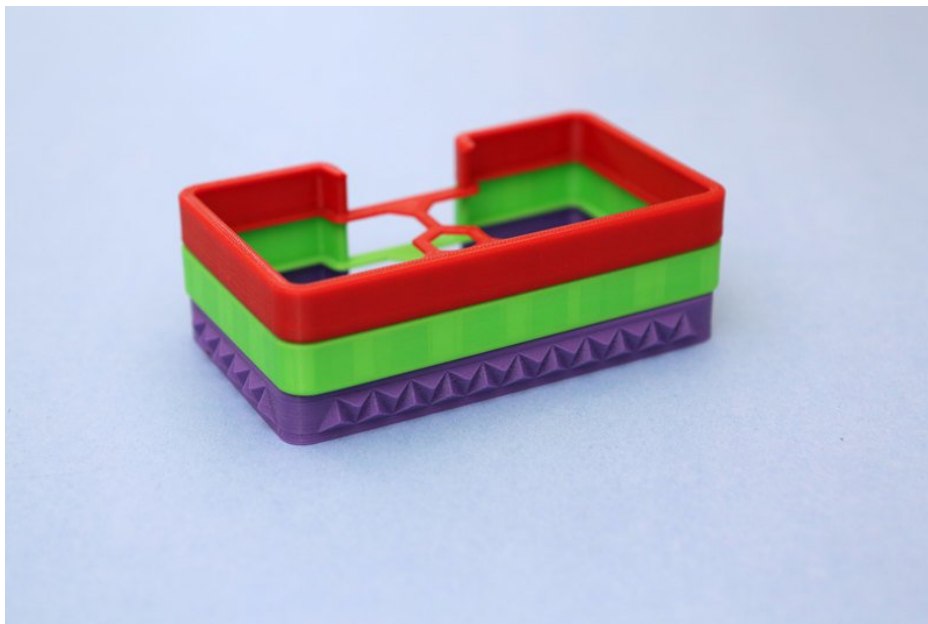
\$650.00
IN STOCK

ADD TO CART



Colors!

Ninjabflex and similar TPU filaments come in a variety of different colors.



Edges & Triangles

Two versions, a simple bumper with clean edges and one with triangles (for grip?).

3D Modeling

Layer by Layer – Fusion 360 Tutorial

We put together a step-by-step walkthrough of designing the bumper in Autodesk Fusion 360. In the tutorial, we import a DXF from the vector file of the acrylic case. Learn how to use sketch driven constants and modelings tools like fillets, chamfers and extrusions.

For more tutorial, be sure to check out [the playlist \(https://adafru.it/Ddm\)](https://adafru.it/Ddm) on YouTube.

<https://adafru.it/Ddm>

<https://adafru.it/Ddm>

Custom CAD

Want to make a your own design? Use the PCB and acrylic case files to create yours!

<https://adafru.it/D0i>

<https://adafru.it/D0i>