



## iPad Pro Bumper

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## Overview



In this project we'll 3d print a bumper for the 11" iPad Pro (2018).

This bumper is 3D printed with flexible filament and will protect the edges and rear facing camera.

The design features a cutout for the USB-C port. Beveled buttons on the side allow easy press of the volume controls.

The frame is padded for protection and allows the tablet to be flush when placed on a flat surface. No more camera bump on the back!



NinjaFlex colors are available in the Adafruit Shop!



[USB C to Micro B Cable - 1 ft 0.3 meter](#)

**\$2.95**  
IN STOCK

[ADD TO CART](#)

Your browser does not support the video tag.

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

\$59.95  
OUT OF STOCK

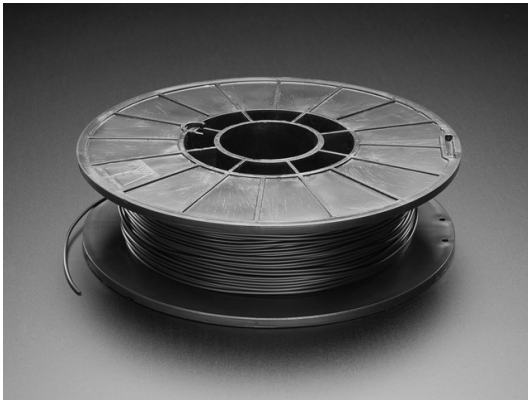
OUT OF STOCK



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

\$59.95  
IN STOCK

ADD TO CART



Cheetah NinjaFlex Filament - 1.75mm - Midnight - 0.5 Kg

\$29.95  
IN STOCK

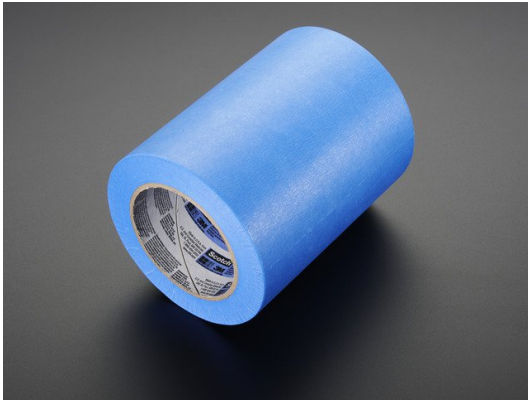
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Ultimaker 3 - 3D Printer



\$3,495.00  
OUT OF STOCK

OUT OF STOCK



Blue Masking Tape for 3D Printing Plates

\$49.95  
IN STOCK

ADD TO CART

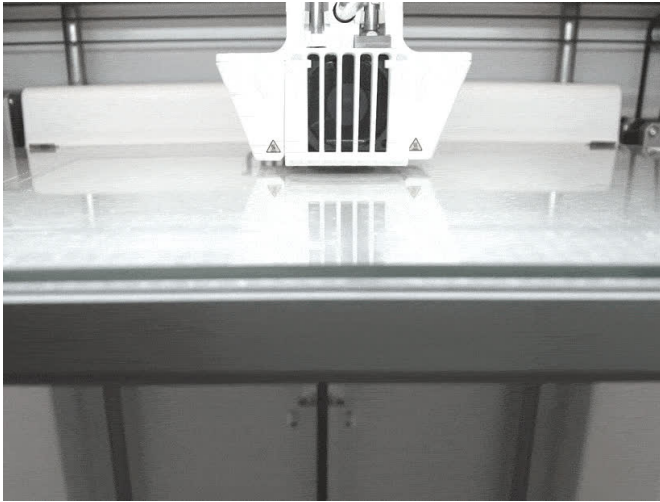


Flush diagonal cutters

\$7.25  
IN STOCK

ADD TO CART

## 3D Printing



The 3D printed bumper is fairly easy to make with most common FDM style 3D printers that are on the market.

And if you don't have access to a 3D printer, you can order our parts by visiting our Thingiverse page and have a local maker 3D print the parts and ship them to you.

This bumper is specifically designed for flexible material only! It will not fit the device if printed in hard plastic!

<https://adafru.it/D4O>

<https://adafru.it/D4O>

<https://adafru.it/D4P>

<https://adafru.it/D4P>

## Slice Settings

Download the STL file and import it into your 3D printing slicing software. You'll need to adjust your settings accordingly if you're using material different than PLA.

### CURA 3.X Slice Settings

- 225C Extruder Temp
- 60C for heated
- .4mm Nozzle
- 0.38 Line Width
- 2 shell count
- .2mm Layer Height
- 10% infill
- Support Material On
- 25mm/s default print speed
- 8mm retraction distance (bowden)



## Flexible Filament

TPU (thermoplastic polyurethane) filament is a flexible material that's ideal for gaskets, plugs, leveling feet, and mobile device cases!

There's different types of TPU, some which more elasticity than others and others with more grip.

## Bed Adhesion

60C temperatures for heated beds. For non-heated beds, PEI sheet and blue tape works well.

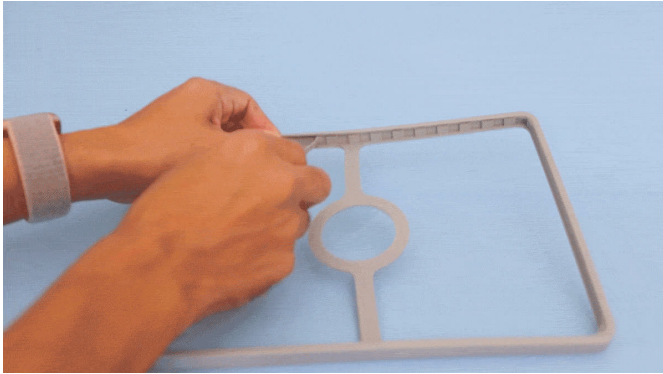


## 3D Printer & Slice Setting

Follow your printers recommended settings below for a good starting point.

## Print Hotter

TPU extrudes best at 220C-225C temperatures. It has a higher melting point and requires more heat than regular PLA.



## Clean up

We used a flush diagonal cutters to clean up support material around the inner edges.

Make sure the openings for the mute switch and USB-C ports are cleaned before plugging in cable. Use a hobby knife to help cut away stringing that could block the volume switch.

