



3D Printed Book Sleeve

Created by Ruiz Brothers



<https://learn.adafruit.com/3d-printed-book-sleeve>

Last updated on 2024-06-03 03:35:32 PM EDT

Table of Contents

[Overview](#) 3

- [Parts](#)

[3D Printing](#) 4

- [Slicing Parts](#)
- [Supports](#)
- [Build Plate Adhesion](#)

Overview



In this project, we're 3D printing custom book sleeves.

Book sleeves can help protect the binding of a book and illustrate detailed hints about the subject.

The stock detachable covers are usually made of paper.



These 3D Printed sleeves are ridged and help keep the spine of the book in shape. The added dimension can really help to show off the artwork and looks great when displayed on your shelf!



Parts



NinjaFlex - 1.75mm Diameter - Semitranslucent White - 0.50 Kg

Looking beyond ABS? Tired of PLA? Open a world of possibilities, limited only by your imagination. NinjaFlex, a cutting-edge filament for 3D printers, is a specially formulated...

<https://www.adafruit.com/product/2445>

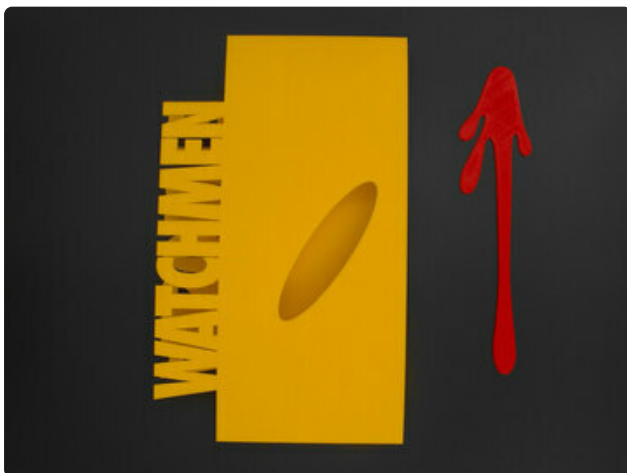


Proto-Pasta - 1.75mm 500g Conductive PLA Filament

It'd be Fusilli not to buy this filament! Pici up this filament today! Did we...

<https://www.adafruit.com/product/2703>

3D Printing



We designed a sleeve for the WatchMen so that it lines up with the graphics on the cover.

The drop of blood was separately printed in red PLA so we could avoid having to paint the sleeve and to add depth to the artwork. Additional parts can be layered on top with adhesives or double sided tape.

You can edit the dimensions along with any creative details to really customize your books!

Edit f3d Book Sleeve Design

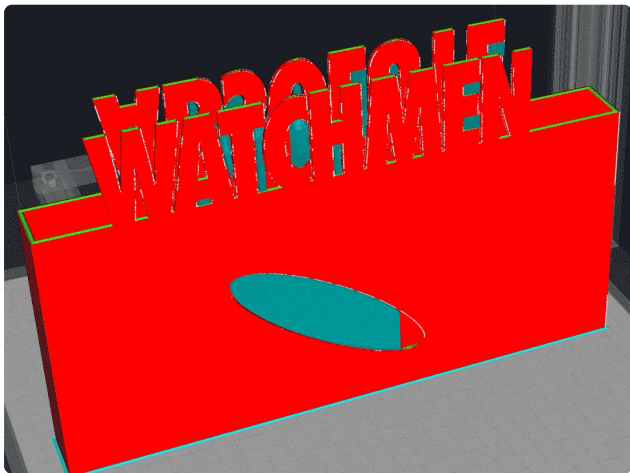
<https://adafru.it/Ze1>

Edit STEP file

<https://adafru.it/Ze2>

Download STLs

<https://adafru.it/Ze1>



Slicing Parts

Supports are required. Slice with setting for PLA material.

The parts were sliced using CURA using the slice settings below.

PLA filament 220c extruder

0.2 layer height

10% gyroid infill

60mm/s print speed

60c heated bed

Supports

Support Extrusion Width: .2

Support Density: 4%

Support Overhang Angle: 70

Support Z Height: .21

Interface: Off

Support Roof: Off

Support Pattern: Zig Zag

Build Plate Adhesion

Type: Brim

Line Count: 4

Brim on outside

