



Retractable tape measure case

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[VIEW IN BROWSER](#)

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Summary

Case for soft / flexible tape measure. Fits 18.5mm wide tape. Separable snap fit.

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Details

Model in images printed in PETG with:

- 0.3mm layer height
- 0.4mm nozzle
- Supports (for spool grip holes)

Fits a measuring tape with dimensions:

- 0.5mm thick
- 18.5mm wide
- 150cm long (+20 cm should be fine, any longer and it would hang outside)

Assembly

1. Place the tape end inside the spool slot
2. Wind the tape a few turns
3. Place the cover over the spool, aligning its slot with the tape

4. Press together the parts

Disassembly

1. Unwind and remove the tape
2. Prepare to catch the spool part
3. Use a fingernail to press one of the arms down and inwards (Simplest method I found)

Afterword

I tried printing the [case model](#) made by [TinkrMakr](#) but it would not budge when trying to rotate it. Might've just been an issue from scaling it up a bit. Then I broke it trying to separate the parts for troubleshooting.

It inspired me to make my own model instead. I lack experience in modelling but it seems to work fine so far, I've attached and deattached the parts multiple times without them breaking. Yes I'm aware the cantilever arm is printed in the weakest orientation.

I'm only barely satisfied with the grip, it could probably be much better. Didn't want to add a protrusion though which would raise the profile by a lot and risk getting broken off.

I don't have yellow filament but I can imagine the swiss cheese look might be cute.

Model files



tapemeasurecase-v6.3mf

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