Collapsing Clearance Test Print

3D Printing World

VIEW IN BROWSER

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Summary

Use this test print to gauge your printers clearance for printing collapsing swords and lightsabers

3D Printers > Test Models

This print is used to gauge your success when printings a print-in-place collapsing sword or lightsaber. Each ring has a different amount of clearance. How many rings are free after printing will tell you what clearance your printer is capable of. The rings should easily fall out and not be attached with any stringing.

I design the blades with .5mm of clearance. If your printer can print a clearance of .5mm, or better yet .4mm, you should have a very high rate of success. I was able to clear .4mm with my standard settings but got down to .25 with more some aggressive settings. It causes some under extrusion as the layer seams so I will probably will keep my original profile.

Center Ring 1= 1mm Clearance

Ring 2= .75mm Clearance

Ring 3= .5 mm Clearance

Ring 4=. 4 mm Clearance
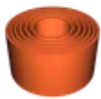
Outer Ring 5= .25 mm Clearance
After printing, if you need to tune your printer to get a better layer seam I would use the original test print. I also have a troubleshooting guide on my website.
Printed on the Mulcore Core-XY 3D Printer
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Model files

collapsing-clearance-test.stl

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