

FORMLABS CUSTOMER SUPPORT GUIDES

Printing the Form 3 optics test

Required Supplies:

- Form 3/Form 3B 3D printer
- Clear, White, Grey, Black, Color, or Draft Resin cartridge
- Form 3 Resin Tank (new or containing matching resin)
- Build Platform

Use this guide to print and record the results of the Form 3 optics test.

Estimated time: 1–2 hours to set up and print

NOTICE: Wear gloves during this procedure. Wash skin with hand soap and water after handling resin. Do not use IPA to remove resin from skin.

Preparing the workspace

OVERVIEW: Prepare the Form 3/Form 3B and a well-ventilated, dust-free workspace for printing the optics test.

STEP 1: REMOVE ANY PREVIOUS PRINTS

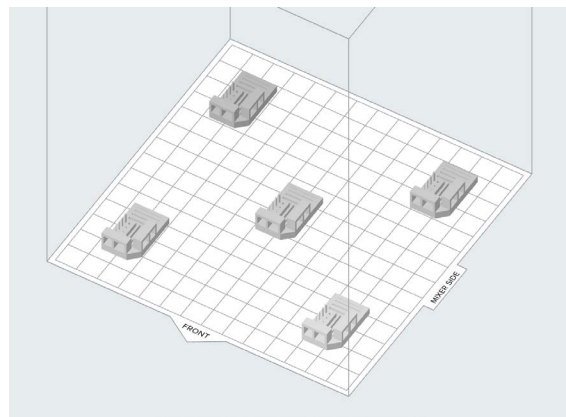
If the printer recently completed another print, remove the build platform and printed part and clean the printer as necessary.

STEP 2: INSERT CONSUMABLES

Insert the resin tank, resin cartridge, and a clean build platform. Lower the cam handle to lock the build platform in place. Close the printer cover and press open the cartridge vent cap.

Printing the optics test

OVERVIEW: Connect the printer to power and print the optics test. The optics test helps confirm if the optics are functioning normally after a resin spill. After completing the optics test, upload diagnostic logs and submit requested photos to Formlabs Support or your authorized reseller.



STEP 1: DOWNLOAD THE OPTICS TEST

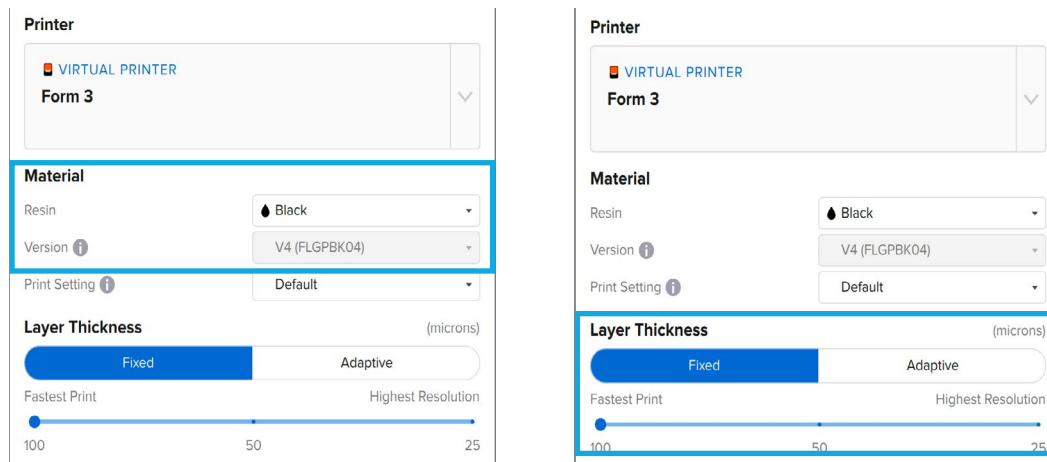
Download the [optics test FORM file](#) and open the file in [PreForm](#).

TIP: The optics test is designed to print directly on the build platform without supports or modifications. Ignore any printability warnings such as “Change Model Layout” and “Models Directly on Build Platform”.

STEP 2: MODIFY PRINT SETTINGS

In the **Job Setup** window, set the **Layer Thickness** to be 100 microns with the selected material.

Formlabs advises you print the optics test with a [Standard Resin](#). Our engineering and dental resins are not suitable for optics tests.



STEP 3: PRINT THE OPTICS TEST

Click the orange **Print** button to send the optics test to the printer. Start the job on the printer; it should take two hours to finish printing.

STEP 4: WASH THE OPTICS TEST

Wash the parts in IPA and allow them to dry while still attached to the build platform.

STEP 5: UPLOAD DIAGNOSTIC LOGS

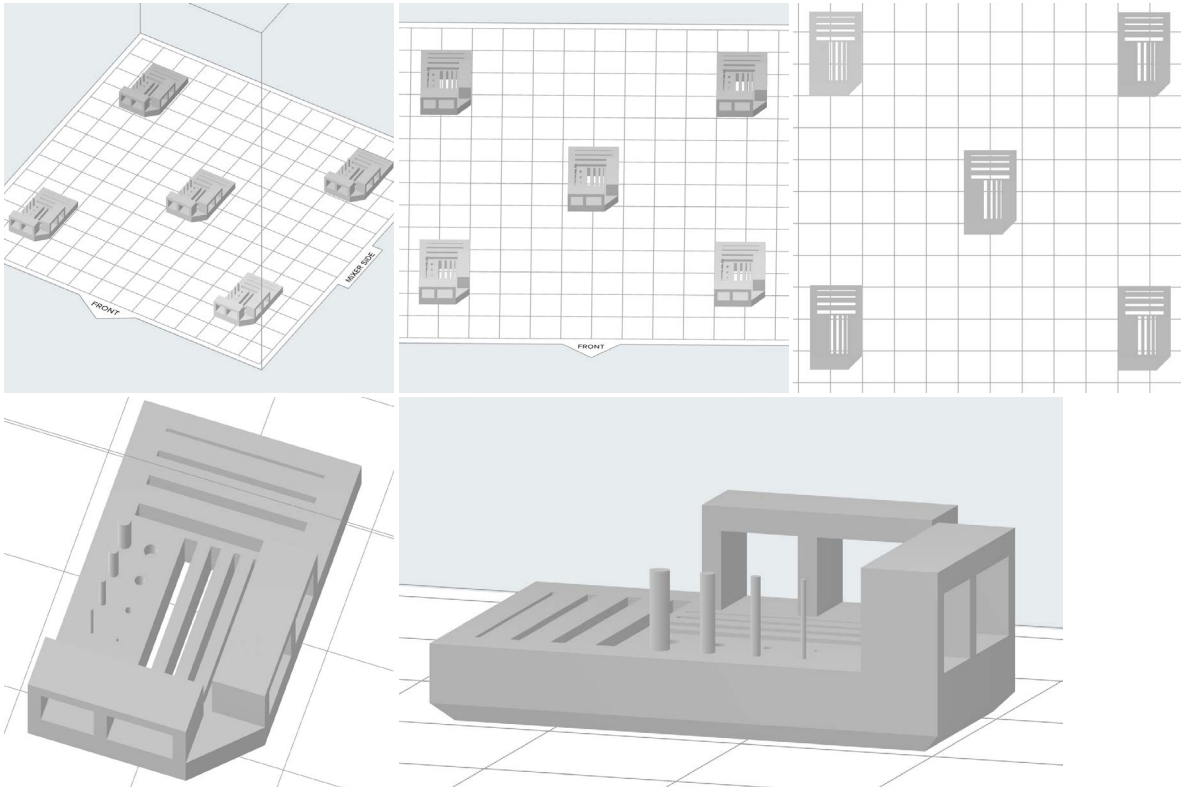
Once the print is complete, [upload diagnostic logs](#) using Formlabs instructions. Formlabs uses diagnostic logs to assess the results of the procedure.

If you are using an authorized reseller, the reseller will contact Formlabs for further diagnostic information.

STEP 6: SUBMIT PHOTOS OF PRINT RESULTS

Leave the optics test parts on the build platform. Variations in print quality across the build area can help Formlabs Support or your authorized reseller locate contamination on the optics.

Take well-lit, in-focus photos based on instructions from Formlabs Support or your authorized reseller. [Attach photos](#) when responding to the support request.



Form 3 optics test

Finish

Submit diagnostic logs and photos of the optics test prints to [Formlabs Support](#) or your [authorized reseller](#) to complete the procedure.