

Fume Cabinet

Safely bond plastics together using plastic glues in the fume cabinet.

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What is the fume cabinet used for?

The fume cabinet is used to safely bond plastics together using plastic glues.



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How do I book the fume cabinet?

All students must book a workbench to be in 3D workshop. Booking a workbench for a 3 hour slot gives you a space to work and access to all necessary tools, sundries and equipment with technical supervision and guidance.

We will only be accepting booked appointments. No walk ins will be accepted.

You can book a workbench via the [Online Resource Booking \(ORB\)](#).

You must complete an online Health and Safety induction before booking a workbench.



The fume cabinet is a yellow machine. This means students can use the equipment but must get staff approval before each use. A member of staff will also supervise.

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What materials can I use with the fume cabinet?

Acrylic gluing can be done in the fume cabinet. In the workshop we use a particularly fluid superglue which is good at flowing into the areas needing to be glued together.

Always ask a technician to show you best gluing practice. The glue is stored in the flame cabinet, so you will also have to ask a technician to give you the glue. Never help yourself to items from the flame cabinet without speaking to a technician first.

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How does the fume cabinet work?

The fume cabinet is an enclosed unit with an independent extraction unit. Air from inside the cabinet is extracted and filtered before being released back into the room.

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How do I use the fume cabinet?

Before using the fume cabinet you should prepare your plastic pieces.

1. **Laser cut** the pieces you want to glue together. The laser leaves them with a clean edge which is ideal for gluing together.
2. Trim the plastic film from the areas that are being glued together. Do not remove the rest of the film. This protects the plastic from being marked or stained by the glue.
3. We have a special tape for securing the pieces together. It is green and transparent - ask a technician if you cannot find it. The tape should hold the pieces together while you are gluing. You only need to put a few pieces of tape to secure everything.

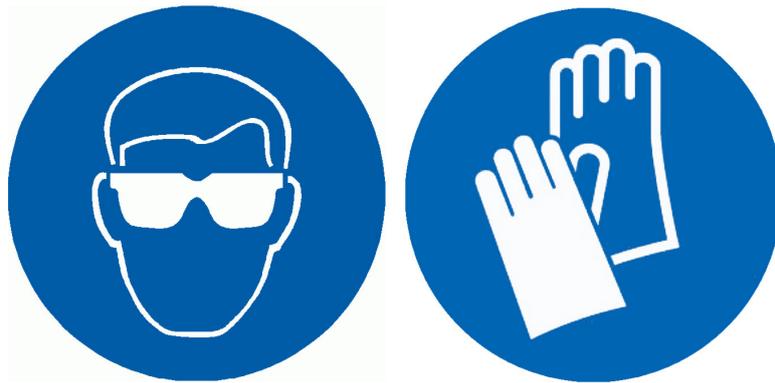
To use the Fume Cabinet:

1. Ensure you are wearing correct **PPE**. A technician can give you this.
2. Ensure the machine is on. The light within the booth will be on when the machine is on.
3. Ask a technician to give you the plastic glue. This is always stored in the flame cabinet when not in use.
4. Open the fume cabinet by lifting the door, the door hooks on to the lip at the top of the machine.
5. Place your object in the fume cabinet and close the door.
6. If the door is left open the unit will beep to warn user. Once the door has been closed the beeping will stop. If beeping does not stop do not use the machine, speak to a technician.
7. After glue has been applied to all joints you can remove the tape.
8. Add more glue any joins that still feel loose.
9. When you are finished inform a technician. They will remove the glue and put it back in the flame cabinet.
10. Dispose of your nitrile gloves in the black bins available.
11. Always leave the fume cabinet clean and tidy.

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What Personal Protective Equipment (PPE) do I need to use the fume cabinet?



You must wear nitrile gloves and goggles when using the fume cabinet. Tie back any long hair and tuck in loose clothing. Aprons are available to cover clothes.

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