Texture
The FormBox is great at picking up texture. Try experimenting with different template materials for unique finishes.

Size
The maximum width and length you are able to mold is 5.9" x 5.9”. To avoid tearing the plastic, we suggest not vacuum forming anything taller than its width.

Packing
If you are placing multiple objects on the mold, know that we need at least 1” inch distance between them. Leave more space for taller or larger objects.

VAC-FORM APPLICATIONS
There are a variety of substances that you can cast inside the molds that you make.

- Resin
- Ice
- Foam
- Concrete
- Jello
- Chocolate
- Plaster
- Silicon

Clear food Safe Film
$3.00 per sheet - 0.5mm Thick

Castable White Color Film
$3.00 per sheet - 0.5mm Thick
(Matte surface - great for painting)
The Fablab is equipped with a Makyu Vacuum Form that’s capable of making molds for different uses. We offer two different types of sheets for vacuum forming with a 5x9" by 5x9" moldable area per sheet.

**OBJECT SETUP TIPS**

**Remove all undercuts**

Undercuts make it difficult to remove templates once they have been formed. Make sure your design doesn’t have any ledges or indents that could stop a template from being removed.

- ![Undercut](image1)
- ![No Undercut](image2)

**Flat side**

Your object must have a flat side at the bottom of it to ensure stability during the forming process. We advise splitting objects that don’t have a flat side to them to make two (or more) pieces to meet this requirement.

- ![Flat Side Requirement](image3)

**ADD DRAFT ANGLES**

Draft angles are slopes on the edges of your templates. They help you remove templates from the vacuum form very easily. The slopes on the edges of your forms should point outwards not inwards, so templates come out with

- ![Draft Angle Example](image4)

**HEIGHT / WIDTH RATIO**

Generally, templates should be wider than they are tall. This helps avoid thinning at the top of the form.

- ![Height/Width Ratio Example](image5)

**AVOID WEBBING**

Avoid sharp angles less than 90 degrees. This can cause ‘webbing’, as the sheet material can bunch and fold onto itself. Also ensure that you lower the trays softly when

- ![Webbing Example](image6)

**ADD AIR HOLES**

Adding air holes will allow air to flow freely through your design to the vacuum plate. This will help your Makyu Sheet get into the tiniest of spaces.

- ![Air Blocked](image7)
- ![Air Free](image8)