



TIPS

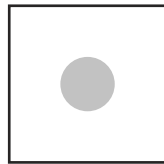
Texture

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



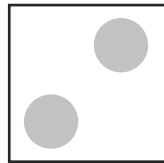
Size

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.

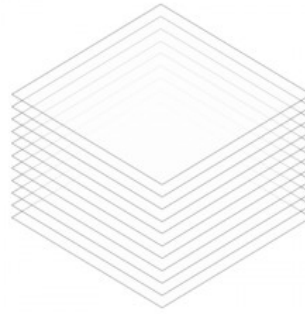


Packing

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.



PRICING



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)



VAC-FORM APPLICATIONS

There are a variety of materials that you can cast within the molds you make.



Resin



Ice



Foam



Concrete



Jello



Chocolate



Plaster



Silicon



VACUUM FORMING GUIDELINES

HOURS OF OPERATION

Monday - Friday 9 am - 6 pm
Pomerantz Center 5th Floor D529A
212 217.5470 | www.fitnyc.edu/printfx



OUR VACUUM FORMER

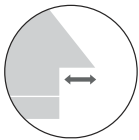
The Fablab is equipped with a Makyu Vacuum Former that's capable of making molds for different uses. We offer two different types of sheets for vacuum forming with a 5x9"x5x9" moldable area per sheet.



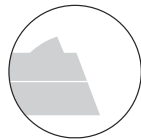
OBJECT SETUP TIPS

Remove all undercuts

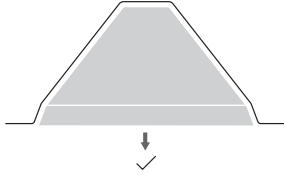
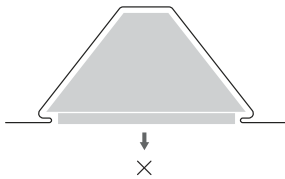
Undercuts make it difficult to remove templates once they have been formed. Make sure your design doesn't have any ledges or indents that could stop a template from being removed.



Undercut

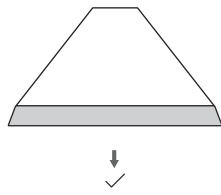
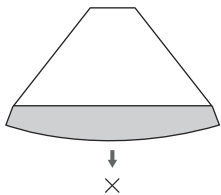


No Undercut



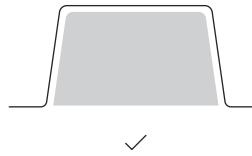
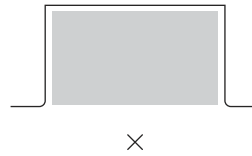
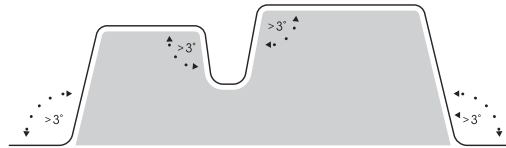
Flat side

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.



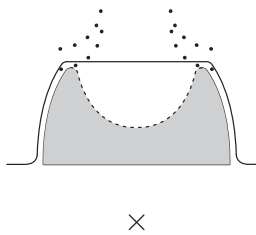
ADD DRAFT ANGLES

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 little effort.

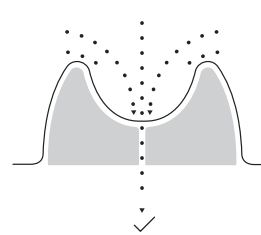


ADD AIR HOLES

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



Air Blocked

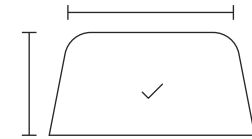


Air Free



HEIGHT / WIDTH RATIO

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



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 forming.

