


# Thinky ARE-310 Mixer

Last updated: Haley Holcomb 9/13/22

Thinky ARE-310 Mixer	
	
<b>Tool Type:</b> PDMS	
<b>Location:</b> mFL 3430	
Supervisor	Tool Lead
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<b>Description:</b> PDMS tool	
<b>Manufacturer:</b> Thinky	

## About

The Thinky Mixer is one of the PDMS tools in the Microfluidics lab. This machine is used for mixing and de-aerating the elastomers that are used in fabrication of microfluidic devices. The mixing time and revolution speed of the device can be programmed using the machine's controller interface.

## Detailed Specifications

- 310g capacity
- Centrifugal force of over 400G
- Cold-insulated, heat-resistant adapter enables support of various material characteristics
- Memory and step-operation functions for controlling and executing operating condition
- 2 modes of mixing and deaeration achieve dispersion and deaeration of high-viscosity materials in a small amount of time

## Safety Concerns

Goggles, gloves, a lab coat, long pants, and close-toed shoes should be worn while operating this

machine. Long hair should be tied back. Review Sylgard 184 resin SOP before handling.

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## Reference Documentation

[thinky\\_are-310\\_mixer\\_manual.pdf](#)

[Using the Thinky Mixer \(video\)](#)

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## Training Documentation

[thinky\\_are-310\\_mixer\\_programming\\_handout.pdf](#)

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