

PDMS Vacuum Oven

Manager: Beth Rhoades

Work Phone

254-4918

Backup: Aaron Windsor

254-4831

Backup:

Calls to staff phones will be automatically forwarded to their cell phones during accessible hours. At other times leave a message or send them an email.

Safety

- Oven can heat up to high temperature.

Process Restrictions

Material Restrictions

- Only use with plastics that can withstand temperatures up to 60°C.

Parameter Restrictions

- After applying a vacuum, vent the chamber before opening the door to prevent damage to the seal.
- Vent slowly if liquid samples are inside the vacuum chamber.

Scheduling / Sign-up Restrictions

- None

Requirements (Do Every Time)

- Log onto the tool usage sheet and provide contact information for if there is a problem with your sample.
- Log the amount of PDMS used, if applicable.
- Mix and cure any unused PDMS base or curing agent before disposing.

Prohibitions (Never Do)

- Do not heat the oven past 60 °C.
- Do not use plastics that can not withstand the temperature.
- Do not leave the oven under a vacuum when not in use.
- Do not leave the oven heating and unattended between 6 PM - 8 AM.
- Do not dispose of uncured base or curing agent.

Common Problems

Problem:

- Oven does not reach temperature

Root Cause:

-Using the dial gauge which is not accurate.

Solution:

-Tune the oven to the desired temperature using the internal thermometer
-Equilibrate the oven for at least 30 minutes

Other Comments or Cautions