

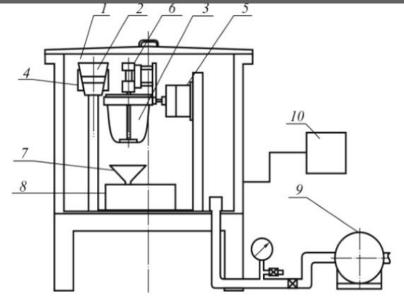
Article review

GETTING A TWO-COMPONENT COLD-CAST PRODUCTS IN POLYURETHANE SILICONE MOLD IN A VACUUM

Motivation

- Approach to obtain high quality product
- Sequence of vacuum casting stages
- Dependence between viscosity and degassing time of polyurethane

Vacuum casting equipment



1.Vacuum chamber 2.Container 3.Container 4.Dosing unit with electric motor 5. Filling unit with electric motor 6. Mixing unit with electric motor 7.Funnel 8.Silicone mold 9. Vacuum pump 10.Control module

Vacuum casting equipment

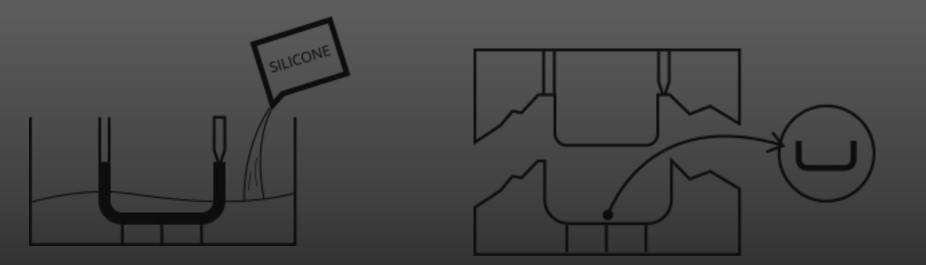


Renishaw 5/01 vacuum casting machine

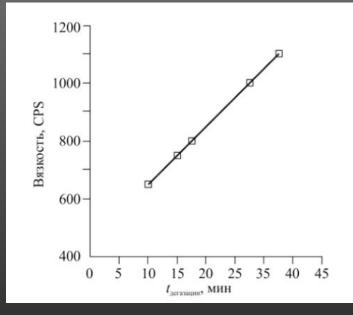
Stages of vacuum casting

- Filling containers with plastic components(basis and hardener).
- Preliminary degassing process for plastic components.
- Mixing plastic components by mixing unit.
- Filling in funnel by filling unit.

Master model



Dependence between viscosity and degassing time of polyurethane



Results of experiment with polyurethanes that have different viscosity parameters.

Thank you for listening.