



Article review

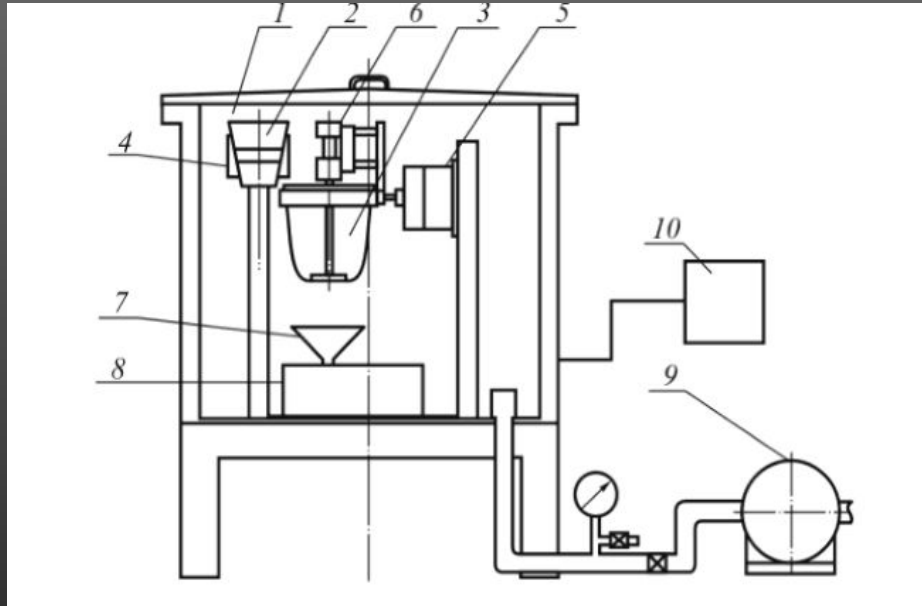
GETTING A TWO-COMPONENT COLD-CAST PRODUCTS
IN POLYURETHANE SILICONE MOLD IN A VACUUM



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

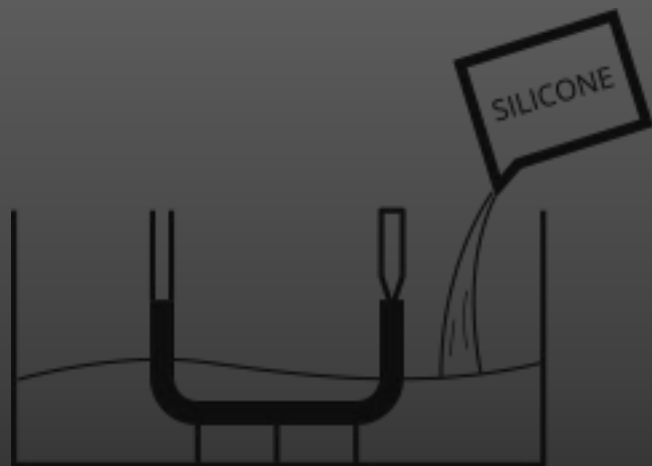




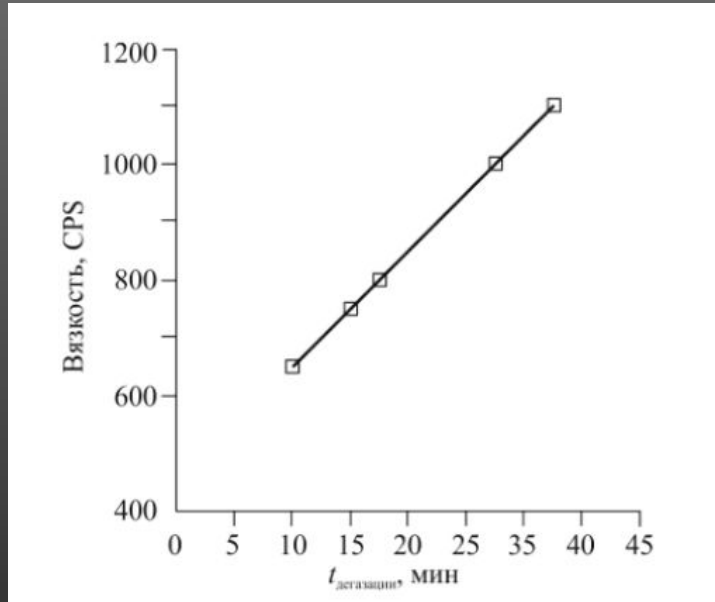
Stages of vacuum casting

- 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.