JEWELRY INJECTION WAX TROUBLESHOOTING



R&R recommends utilizing the following problems and remedies to guide you through any difficulties you may encounter with your jewelry injection waxes.

This information is intended to help you troubleshoot these problems. Should your issue persist, please contact our technical team at Technical@ransom-randolph.com for additional assistance.

Parts Not Filled

Remedies:

- Increase wax temperature
- Increase injection air pressure
- Increase sprue size
- Reduce clamping pressure
- Use a lower viscosity wax
- Clean injection nozzle
- Increase/clean mold vents
- Reduce amount of release spray/Talc

Poor Wax Surface

Remedies:

Reduce amount of release spray/Talc

Air Bubbles in Wax

Remedies:

- Reduce wax temperature
- Increase wax temperature
- Reduce injection air pressure
- Ensure wax is properly conditioned
- Ensure wax pot is full
- Ensure no moisture in air lines
- Ensure clamp pressure is even

Flashing-Overfilled Molds

Remedies:

- Reduce wax temperature
- Reduce injection air pressure
- Ensure clamp pressure is even

Shrinkage

Remedies:

- Reduce wax temperature
- Reduce injection air pressure
- Increase sprue size
- Use a low shrink wax
- Increase dwell time

Cavitation/Sink Areas Remedies:

Reduce wax temperature

- Increase injection air pressure
- Increase sprue size
- Use a low shrink wax
- Increase dwell time

Brittle/Cracked Wax

Remedies:

Use a more ductile/flexible wax

Rough Wax Surface

Remedies:

Reduce amount of release spray/Talc

Wax Breaks While Removing from Mold Remedies:

Reduce wax temperature

Increase dwell time



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