# Castable Wax 

## Sharp Detail and Clean Casting Every Time.

A 20\% wax-filled photopolymer for reliable casting with zero ash content and clean burnout, Castable Wax Resin accurately captures intricate features and offers the smooth surfaces stereolithography 3D printing is known for.


V1) FLCWPU01 * May not be available in all regions

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To the best of our knowledge the information contained herein is accurate. However, Formlabs, Inc. makes no warranty, expressed or implied, regarding the accuracy of these results to be obtained from the use thereof.

METRIC ${ }^{1}$
IMPERIAL ${ }^{1}$
METHOD

|  | Green ${ }^{2}$ | Green ${ }^{2}$ |  |
| :--- | :---: | :---: | :---: |
| Tensile Properties |  |  |  |
| Ultimate Tensile Strength | 12 MPa |  |  |
| Tensile Modulus | 220 MPa | 1680 psi | ASTM D 638-10 |
| Elongation at Break | $13 \%$ | 32 ksi | ASTM D 638-10 |
| Burnout Properties | $249{ }^{\circ} \mathrm{C}$ |  | ASTM D 638-10 |
| Temp @ $5 \%$ Mass Loss | $0.0-0.1 \%$ | $480^{\circ} \mathrm{C}$ |  |
| Ash Content (TGA) | $0.0-0.1 \%$ | ASTM E 1131 |  |

${ }^{1}$ Material properties can vary with part geometry, print orientation,
2 Data was obtained from parts printed using Form 2, Castable print settings, and temperature.

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50 \mu \mathrm{~m} \text { Fine Detail settings and washed without post-cure. }
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## STANDARD BURNOUT SCHEDULE

The Standard Burnout Schedule is designed to provide the maximum possible investment strength and complete burnout of the finest details using Certus Prestige Optima or similar investment materials. Use this schedule as a starting point and make adjustments as needed.

|  | PHASE | TIME | SCHEDULE ${ }^{\circ} \mathrm{C}$ | SCHEDULE ${ }^{\circ} \mathrm{F}$ |
| :---: | :---: | :---: | :---: | :---: |
| A | Insert Flasks | 0 min | $21^{\circ} \mathrm{C}$ | $70^{\circ} \mathrm{F}$ |
|  | Ramp | 60 min | $4.7{ }^{\circ} \mathrm{C} / \mathrm{min}$ | $8.4{ }^{\circ} \mathrm{F} / \mathrm{min}$ |
|  | Hold | 480 min | $300{ }^{\circ} \mathrm{C}$ | $572{ }^{\circ} \mathrm{F}$ |
| B | Ramp | 100 min | $4.5{ }^{\circ} \mathrm{C} / \mathrm{min}$ | $8.1{ }^{\circ} \mathrm{F} / \mathrm{min}$ |
|  | Hold | 180 min | $750{ }^{\circ} \mathrm{C}$ | $1382{ }^{\circ} \mathrm{F}$ |
| C | Ramp | 60 min | $-4.0{ }^{\circ} \mathrm{C} / \mathrm{min}$ | $-7.1{ }^{\circ} \mathrm{F} / \mathrm{min}$ |
|  | Casting Window | Up to 2 hours | $512{ }^{\circ} \mathrm{C}$ <br> (or desired casting temp) | $954^{\circ} \mathrm{F}$ <br> (or desired casting temp) |



## Post-Curing Info:

No post-cure required

