**JEWELRY RESIN** 

formlabs 😿

# **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.



 Prepared
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 Rev.
 01
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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.

### MATERIAL PROPERTIES DATA

### **Castable Wax Resin**

	METRIC <sup>1</sup>	IMPERIAL <sup>1</sup>	METHOD
	Green <sup>2</sup>	Green <sup>2</sup>	
Tensile Properties			
Ultimate Tensile Strength	12 MPa	1680 psi	ASTM D 638-10
Tensile Modulus	220 MPa	32 ksi	ASTM D 638-10
Elongation at Break	13%	13%	ASTM D 638-10
Burnout Properties			
Temp @ 5% Mass Loss	249 °C	480 °C	ASTM E 1131
Ash Content (TGA)	0.0 - 0.1%	0.0 - 0.1%	ASTM E 1131

<sup>1</sup> Material properties can vary with part geometry, print orientation, print settings, and temperature.  $^2$  Data was obtained from parts printed using Form 2, Castable 50  $\mu m$  Fine Detail settings and washed without post-cure.

## 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 °C	SCHEDULE °F
A	Insert Flasks	0 min	21 °C	70 °F
	Ramp	60 min	4.7 °C / min	8.4 °F / min
	Hold	480 min	300 °C	572 °F
В	Ramp	100 min	4.5 °C / min	8.1 °F / min
	Hold	180 min	750 °C	1382 °F
с	Ramp	60 min	- 4.0 °C / min	- 7.1 °F / min
	Casting Window	Up to 2 hours	512 °C (or desired casting temp)	954 °F (or desired casting temp)



#### Post-Curing Info:

No post-cure required.