

Post-Curing with Form Cure

Post-curing helps 3D printed parts achieve optimal material properties. Follow these recommendations to configure Form Cure for Formlabs resins.

	Resin Type	Cure	Time (min)	Temperature (°C)
Standard Resins	Clear Resin	Recommended ¹	15	60
		Full Cure	30	60
	Black Resin White Resin Grey Resin	Recommended ¹	30	60
		Full Cure	60	60
	Color Resin	Recommended ¹	30	60
		Full Cure	60	60
Engineering Resins	Tough Resin	Recommended ¹	60	60
		Full Cure	120	60
	Durable Resin	Full Cure ²	60	60
	Flexible Resin	Recommended ¹	15	60
		Full Cure	60	60
	High Temp Resin	Recommended ¹	30	60
		Full Cure	60	60
	Rigid Resin	Full Cure ³	15	80
	Grey Pro Resin	Full Cure ³	15	80
Ceramic Resin	N/A ⁶	N/A	N/A	
Dental Resins	Dental SG Resin	Full Cure ⁴	30	60
	Dental LT Clear Resin	Full Cure ⁴	20	80
	Dental Model Resin	Recommended ¹	30	60
		Full Cure	60	60
Jewelry Resins	Castable Resin	Full Cure ⁵	240	60

¹ The recommended post-cure settings achieve close-to-maximum mechanical performance and minimize the post-cure time. The full post-cure settings achieve the maximum mechanical properties and require significantly more time. Use full post-cure settings when using materials for functional applications.

² For parts printed with Durable Resin, the tensile modulus continues to increase steadily throughout the first hour of post-curing. There is only one proposed post-curing setting.

³ There is no significant gain in properties after 15 minutes. There is only one recommended post-curing time.

⁴ This cure setting ensures that parts achieve both biocompatibility and optimum mechanical properties.

⁵ Cure for 4 hours to increase the part strength. After curing, follow the Recommended Burnout Guide. Increasing the cure time may improve casting results, particularly for thicker parts, though casting success depends more on the part geometry and casting process. Testing results show no disadvantages for increasing cure time.

⁶ Ceramic Resin does not require post-curing, however parts must be fully dry before firing. Allow parts to fully dry before firing.

These settings will be updated periodically. Always refer to formlabs.com/cure-support for the most updated information about post-curing printed parts with Form Cure.