

Finish Levels Available at Protogenic

QuickProof SLA (E2): Our fastest and least expensive SLA offering is called Quick Proof. The idea behind it is to supply you with a faster, lower cost model with minimal finishing, when that's all you want or need. Finishing includes support removal, measuring it to ensure dimensional accuracy, and secure packaging. The reduced level of finishing means we can usually ship the Quick Proof model a day faster, usually next day, and at an appropriately reduced cost to you. Inserts or Helicoils are also installed per your specifications, based on the sizing on our threaded fastener page.

Functional Finish SLA (E3): Also referred to as a “standard finish,” a functional finish takes your SLA to another level. In addition to the steps described above for QuickProof, the functional SLA receives an engineering level of finish, that includes additional finishing on the exterior surfaces, bead blast finish and matte spray. Inserts or Helicoils are also installed per your specifications, based on the sizing on our threaded fastener page. Our lead times are typically 1-3 days for functional SLA's. Also, this functional SLA is the master pattern for silicone rubber molds.

Clear Coat SLA (E4): Instead of matte spraying your functional finish SLA, we add a clear acrylic spray coating to all exterior surfaces of your model. The result is a glossy smooth surface, and the model will be transparent if a clear SLA resin was used, however some build lines will be present through the clear coating, since their removal is not included in a standard functional finish. This is the lowest cost approach when you want to be able to see through your SLA models, as the price for clear coating is the same as a functional finish.

Paint Ready Finish SLA (A5): The ultimate in cosmetic quality, the paint ready finish takes the Functional finish to an even higher level of finish to all exterior, cosmetic surfaces. Your SLA is delivered completely sanded, with primer, and ready for paint, for a truly “show quality” SLA model. This higher level of finish can sometimes add another 2-4 days to the lead-time of a functional SLA. And, we can also provide custom color matching and painting services.

Polished SLA (A6): For those times when high gloss, extremely flat and smooth surfaces are a requirement, we offer polishing on all of our SLA resins. For clear resins, this option is the best for optical clarity. We hand polish the parts, and the result is a pristine, “show quality” polished surface on both sides of the model. As with a paint ready finish, this higher level of finish can sometimes add another 3-5 days to the lead-time of a functional SLA.

Shore A PolyJet (E2): All support materials removed, water blasted, and measured. Our lead times are typically 1-2 days for Shore A PolyJet parts.

Shore D PolyJet (E3): All support materials removed, water blasted, and parts measured. Part exterior is then lightly sanded, and matte sprayed. Inserts are also installed per your specifications, based on the sizing on our threaded fastener page. Our lead times are typically 1-2 days for Shore D PolyJet.

Laser Sintered Nylon (E2): All parts are bead blasted, with extent dimensions measured to ensure dimensional accuracy. Holes can be post-drilled or reamed, and parts can be washed upon request, and inserts or Helicoils are also installed per your specifications, based on the sizing on our threaded faster page.

Cast Urethanes (A5, A6): All material flash along the parting line is removed, and gates and vents are clipped and minimized as close to the part as possible. Inserts or Helicoils are also installed per your specifications, based on the sizing on our threaded faster page. Critical to Function features are checked, and some assembly, bonding, and fit checks are also performed, per your specifications.

For questions about any of the finish levels available, please contact your Protogenic sales representative for a more detailed explanation, and sample pictures, or see our web site at www.protogenic.com/Finish_levels.aspx.

Guarantee

Protogenic guarantees Customer satisfaction: We will do whatever it takes to assure your satisfaction with our product. That means that, in the unlikely event that you're dissatisfied, we will fix it, replace it, or refund your money. Because of the time-sensitive nature of your project, and our commitment to your success, we're happy to extend this guarantee a full 30 days from your order's last ship date.