



Finishing Guide for 3D Printed Parts

Breakdown of the available surface finishes available for 3D printing technologies at Stratasys Direct Manufacturing.

stratasys
DIRECT MANUFACTURING

Finishing from 3D printing experts

Stratasys Direct Manufacturing has a long history of providing dedicated assistance to customers from the first inquiry to final parts delivery - and that includes the many finishes possible for your project.

Depending on the 3D printing technology, build orientation, resolution, and materials you choose, your parts aesthetics right from the printer can vary. That's why we offer so many options for you, from removal of supports and smoothing to dyeing and cosmetic painting for production-quality aesthetics.

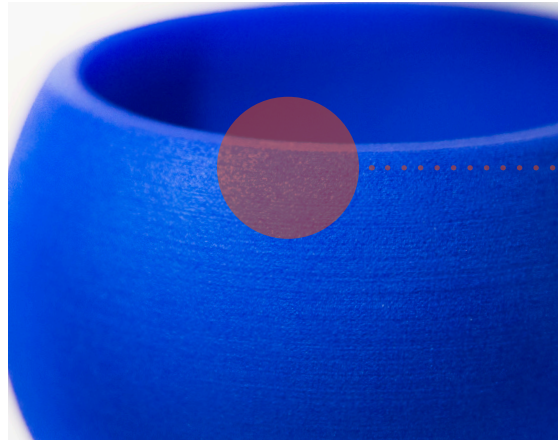
Use this guide to get a high-level look at your finishing options for each technology and material. As always, you can reach out to our customer representatives or project engineers at any time to speak about your specific custom needs. Our dedicated team of manufacturing professionals and finishing experts are here to deliver beautiful, impeccable parts that meet your project requirements.



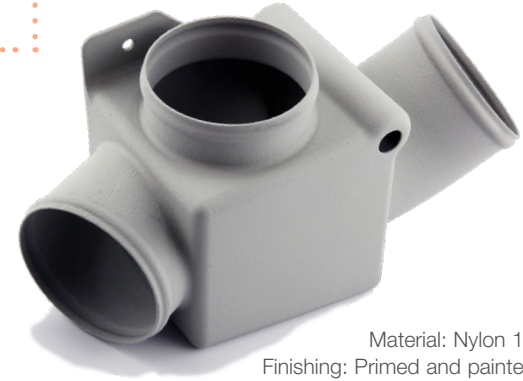
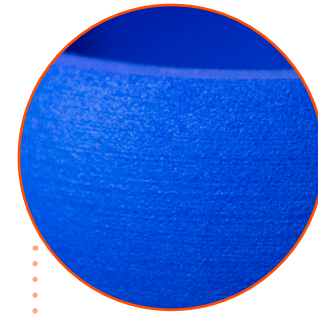
Laser Sintering (LS, SLS) Available Finishes



Material: Nylon 12 AF
Finishing: Color dyed red



Material: Nylon 12 PA
Finishing: Color dyed blue



Material: Nylon 11
Finishing: Primed and painted

Material	Finishes	Description	Part breakout	Dry media blast	Color dyed	New! PolyShot Surfacing	Sanded	Primed	Painted
Nylon 11	Standard	Part is media blasted to remove support powder	●	●					
Nylon 11 FR	PolyShot Surfacing	Part is media blasted to remove support powder, then undergoes PolyShot Surfacing for scratch resistance, smoother resurface and semi-gloss aesthetics	●	●		●			
Nylon 12 PA									
Nylon 12 FR									
Nylon 12 GF	Dyed	Part is media blasted to remove support powder and then dyed to achieve desired color	●	●	●				
Nylon 12 HST									
Nylon 12 CF									
Nylon 11 EX	Painted	Need your part painted? We can paint, prime and color match to fit your needs.	●	●			●	●	●

SAF™ & MJF

Available Finishes



Material: MJF Nylon 12 PA
Finishing: Dyed black

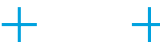


Material: SAF™ High Yield PA 11
Finishing: Standard



Material: MJF Polypropylene
Finishing: Standard

Material	Finishes	Description	Part breakout	Dry blast	New !	Dyed black	Sanded	Primed	Painted
					PolyShot Surfacing				
MJF Nylon 12 MJF Polypropylene SAF™ High Yield PA 11	Standard	Part is media blasted to remove support powder	●	●					
	Dyed black	Part is media blasted to remove support powder and dyed black	●	●		●			
	PolyShot Surfacing	Part is media blasted to remove support powder	●	●	●				
	Painted	Need your part painted? We can paint, prime and even color match to fit your needs	●	●			●	●	●



Introducing Polyshot Surfacing

Get an unbelievable surface finish on your SLS, SAF, and MJF components with the new PolyShot Surfacing at Stratasys Direct.

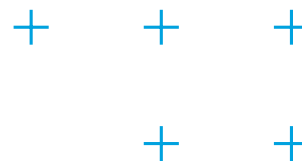
Powered by DyeMansion, this non-abrasive surfacing process improves the surface finish on your parts, delivering a unique semi-gloss look and increased vibrancy on your components.

In addition to improved aesthetics, PolyShot Surfacing also provides a more homogeneous surface finish and enhanced scratch resistance. This new, economical surface treatment gives your SLS, SAF, or MJF parts a production look and feel.

Elevate your aesthetics even further with our new DeepDye process for more intense colors on your parts.



Material: Nylon 12 PA
Finishing: PolyShot Surfacing and Dyeing



PolyJet™ Available Finishes



Material: Agilus Overmolded with Vero
Finishing: Standard



Material: Multicolor
Finishing: Transparent



Material: Multicolor
Finishing: Glossy

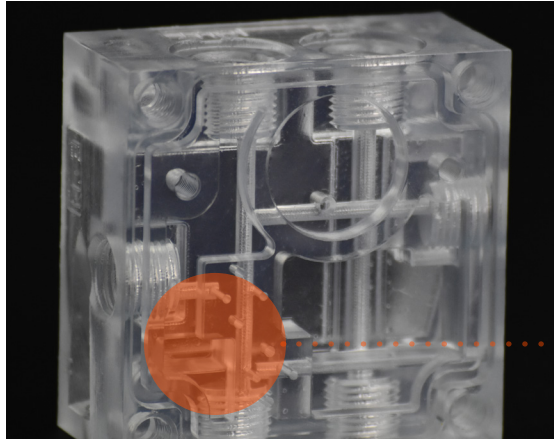
Material	Finishing	Description	Remove supports	Sanded	Clear coated	Primed	Painted
Vero (Rigid)	Standard	Machine finish part. Layer lines will be visible.	●				
Multi-color (vivid & vero) Digital ABS Plus	Glossy	Part is sanded and a two part clear coat is applied to achieve a glossy part. Layer lines may be visible	●	●	●		
Rigur	Painted	Need your part painted? We can paint, prime and even color match to fit your needs	●	●		●	●
VeroClear	Transparent	Results in a smooth glass-like transparent part with no layer lines. Dimensions will be reduced due to sanding involved in removing layer lines.	●	●	●		
Agilus 30A-95A (Flexible)	Standard	Machine finish part. Layer lines will be visible.	●				

Stereolithography (SL)

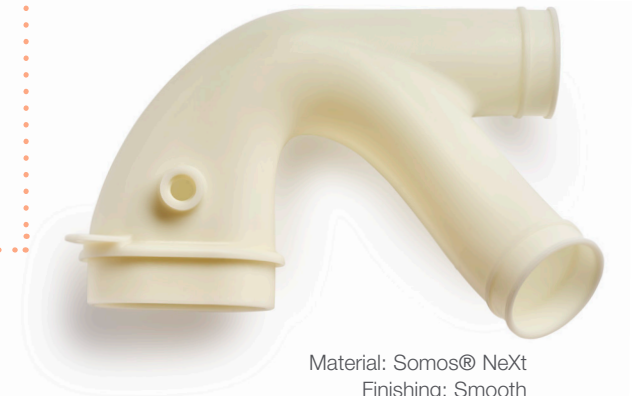
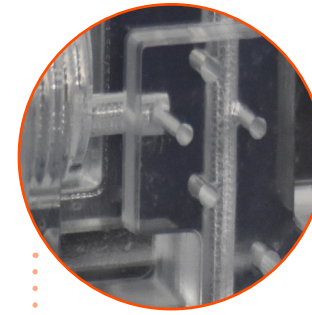
Available Finishes



Material: Somos® WaterShed
Finishing: Frosted



Material: Somos® WaterClear Ultra
Finishing: Transparent



Material: Somos® NeXt
Finishing: Smooth

Material	Finishing	Description	Remove supports & excess resin	Sanding/Removing layer lines	Dry media blast	Clear coat	Primed	Painted
Somos® NeXt	Standard	Machine finish part with supports removed and slightly sanded. Layer lines will be visible.	●					
Somos® ProtoGen 18420	Smooth	Dry blasted to create a semi-smooth uniform part.	●		●			
Somos® WaterShed XC (11122)	Glossy	Part is sanded and a two part clear coat is applied to achieve a glossy part.	●	●		●		
Somos® WaterClear Ultra (10122)	Painted	Part is sanded and a two part clear coat is applied to achieve a glossy part. Layer lines may be visible.	●	●			●	●
Somos® WaterShed XC (11122)	Frosted	Part is dry blasted to create a semi-smooth part with semi-translucent aesthetic.	●		●			
Somos® WaterClear Ultra (10122)	Transparent	Results in a smooth glass-like transparent part with no layer lines. Dimensions will be reduced due to sanding involved in removing layer lines.	●	●		●		

Custom Solutions For Your Projects

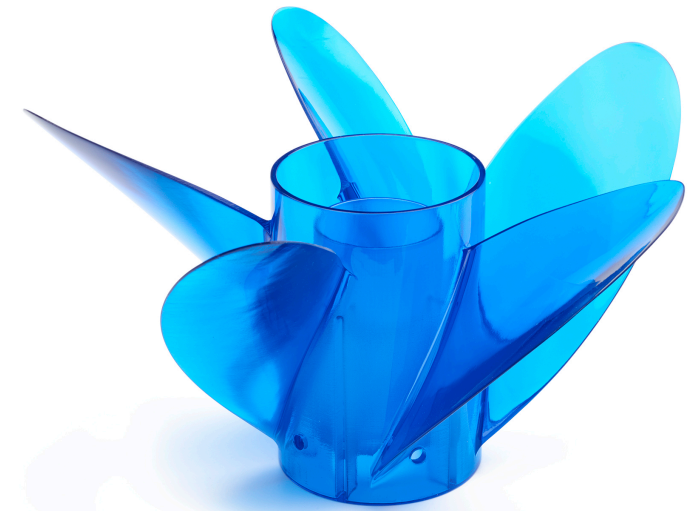
With over 30 years in the Industry, our finishing teams have wide experience/capability with fulfilling custom finish requirements to meet your projects needs which include:

- Tumbling
- Electroplating
- EMI/RFI shielding
- Vapor smoothing
- Epoxy coating
- Sealant coating
- Textures & Mold-Tech® finishes
- Integral Fuel Tank (IFT) coating
- Anodizing
- Metal plating
- Polishing
- Ink stamping/part marking
- Color match painted parts
- Pad printing (logos, etc.)

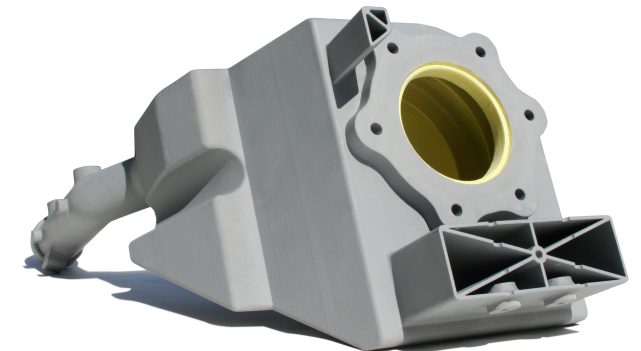
And much more....



Material: ULTEM™ 9085 resin
Finishing: Tumbling and epoxy coating



Material: Somos® WaterShed XC 11122
Finishing: Sanded, tinted clear-coat



Material: Nylon 12 PA
Finishing: Sealant coating





Expert help is always available

Whatever your project, our 3D printing and manufacturing experts are here to help you achieve your project requirements.

Ready to get started?

Get a Quote

Want to speak to an expert?

Contact an engineer

Need more information on our available materials?

Visit our Material Wizard

