



Shake the bottle and mix the resin in the vat before start printing!

Fast - Navy Grey requires 20% exposure than other Fast

User Guide for Fast Navy Grey

For other resin user guides, please visit <https://siraya.tech/support-section>

Fast is an affordable fast curing and non-brittle general application resin ideal for model making like tabletop mini, and figurines. It is not a tough or engineering resin but can be mixed with Blu/Tenacious for more impact resistant.

Fast - Navy Grey is the latest iteration of Fast resin. It preserves the non-brittleness and easy printing of Fast resin while increase resolution. It has a beautiful matte finish which when combined with its dark navy grey color, it really shows off small features on a design. What makes it beautiful is also what makes it different to print than other Fast resin.

Fast - Navy Grey needs about 20% more exposure time than regular Fast

Fast - Navy Grey gets it superb color from lots pigments and thus it settles quicker than regular Fast

Fast - Navy Grey also has a special additive that gives it the matte finish. This makes it separate faster than regular Fast

To print Fast - Navy Grey well and minimize separate

1. Shake the resin well in the bottle. We recommend such approach
2. Print over 20C but not over 30C to reduce separation. This is because resin separate quicker at higher temperature.
3. For resins, already in the vat, it is best to do a quick stir before pouring back to bottle for shaking in step1
4. Some users add 10% Tenacious to further increase durability and reduce separation
5. Make sure the build plate is very clean before each print. Some user would wash in acetone to ensure removal of resin/pigments on the plate.

While the ideal printing condition for Fast is over 20C, we have printed as long as 15C as long as the bottom layers uses more exposure time

Fast is designed for MSLA printer in mind. It can work in DLP and laser SLA printer but you would need FEP film based vat

Find out why recommended support time is 3 and 10 sec

Please download profiles base for Elegoo, Anycubic, Phrozen, Peopoly, EPAX, Creality

https://drive.google.com/drive/folders/1eCz4_d00TtJBLp4L9mKYebY90HtH07usp?sharing

Exposure for Navy Grey, adding 20-25% more exposure time than Fast grey

		Recommended			Begin Temperature 20-25C			Begin Temperature 20-20C			Note
Layer	Height	Exposure (s)	# of initial Layers	Exposure for Init Layers	Exposure (s)	# of initial Layers	Exposure for Init Layers	Exposure (s)	# of initial Layers	Exposure for Init Layers	
Photon	50um	12 (s)		4 60 s			11(s)			6 60 s	Heavy Support
Peopoly Phenom	50um	15s		6 90 s			15s			6 90 s	
EPAX X1	50um	10 (s)		4 50 s			11 (s)			6 56 s	
Photon S	50um	10 (s)		5 75s			10 s			5 75s	
Mars	50um	10 (s)		4 62 s			10 (s)			4 62 s	
Mars Pro	50um	6.5s		4 40s			6.5s			4 40s	
Satum	50um	2.7s		5 25s			2.7s			5 25s	
SL1	50um	8s		10 50 s			8s			10 50 s	
Mars 2 Pro	50um	2.5s		5 30s			2.5s			5 30s	
Photon Neo	50um	2.5s		5 30s			2.5s			5 30s	
Photon Mono											
Photon Mono X											
Mars 2 Pro											
Mars 3											
Satum											
Sonic Mini 4K											
Might 4K											
Mega 8K											
Peopoly Printers											

Print Setting Recommendation

Brand Printer	Elegoo Mars	Elegoo Mars Pro	Elegoo Mars 2	Elegoo Mars 2 Pro	Elegoo Mars 3	Elegoo Satum	Anycubic Photon	Anycubic Mono	Anycubic Mono SE	Anycubic Mono X	Phrozen Sonic Mini 4K	Phrozen Might 4K	Phrozen Mega 8K	Peopoly Phenom	Peopoly Phenom Noir	Peopoly Phenom L	Peopoly Phenom Prime	EPAX X1	EPAX E6	EPAX E10	EPAX X10	EPAX X156	Creality LD-002H	Creality LD-002R	Creality Halot One	Creality Halot Sky
Layer height (mm)	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Bottom layer count	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Exposure time (s)	10	10	2.5	2.5	2.5	3	15	1.9	1.9	2.2	3	3.25	4	15	2.5	9.5	2.5	2.5	2.5	9.5	2.6	10	3	3	3	3
Bottom exposure time (s)	65	60	35	35	35	45	60	25	25	30	45	45	55	100	35	80	35	80	35	80	65	35	65	45	45	45
Waiting Mode During Printing	Rest	Rest	Rest	Rest	Rest	Rest	Rest	Rest	Rest	Rest	Rest	Rest	Rest	Rest	Rest	Rest	Rest	Rest	Rest	Rest	Rest	Rest	Rest	Rest	Rest	Rest
Bottom light off delay (s)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rest Time Before Lift (s)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rest Time After Lift (s)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rest Time After Retract (s)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Bottom Lift Distance (mm)	5	5	5	5	5	7	5	5	5	7	5	7	10	12	12	15	12	7	15	7	15	5	5	5	5	5
Lift Distance (mm)	5	5	5	5	5	7	5	5	5	7	5	7	10	12	12	15	12	5	5	7	7	15	5	5	5	5
Bottom Retract Distance (mm)	5	5	5	5	5	7	5	5	5	7	5	7	10	12	12	15	12	5	5	7	7	15	5	5	5	5
Retract Distance (mm)	5	5	5	5	5	7	5	5	5	7	5	7	10	12	12	15	12	5	5	7	7	15	5	5	5	5
Bottom Lift Speed (mm/min)	50	50	50	50	50	45	50	50	50	45	50	45	45	32	32	32	32	50	50	45	45	50	50	50	45	45
Lift Speed (mm/min)	60	60	60	60	60	50	60	60	60	50	60	50	45	48	48	45	48	60	60	50	50	50	60	60	50	50
Bottom Retract Speed (mm/min)	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150
Retract Speed (mm/min)	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
Transition Layer Count	4	4	5	5	5	6	4	5	5	6	4	5	6	6	6	6	6	4	5	6	6	6	5	4	5	5
Transition Type	Linear	Linear	Linear	Linear	Linear	Linear	Linear	Linear	Linear	Linear	Linear	Linear	Linear	Linear	Linear	Linear	Linear	Linear	Linear	Linear	Linear	Linear	Linear	Linear	Linear	Linear
Transition Time Decrement	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Recommend best support settings:

We recommend medium preset support setting in chitubox for smaller prints. Heavy support for large prints on large printers

If you don't use chitubox, at least download a copy and see the detail settings for each preset and copy them over to your software of choice

Cleaning:

Use a painter brush (or any brush made with hair) remove excess resins on the printed part with Use 90% concentrated Ethanol (preferred) or IPA to clean. Some form of methanol should work but make sure it does not contain acetone. After 4 minutes of cleaning action, remove alcohol with a hair dryer or air blower. For complex part with lots cavities, it may be a good idea to clean/dip multiple times. User can check by touching the dried surface of the part to see if it is still sticky. If the dried surface is still sticky, wash some more and dry again.

Post Curing:

Fast reached its optimal strength when the printed part is post-cured with UV after cleaned. Use 395-405nm UV light and cure for about 1-2 minutes.

Make sure resin is completely cleaned off and there is not alcohol left (it needs to be dry) on the print before curing.

It is important to dry the print made by Fast completely before post curing. There is no need to use submerge in water technique with Fast.

Mechanical Properties

Shore Hardness (D)	75D
Tensile Stress at Break (MPa)	31
EZDD Impact (Notched, J/m)	25
HDT at 0.455 MPa (°C)	65
Elongation at Break (%)	7
Young's Modulus (MPa)	1100
Viscosity	110cps
Shrinkage	6% per volume

MSDS

https://drive.google.com/uc?usp=sharing&id=J7HjgHfzG0K3N3N9R8dK5pG3X_4uagwZ

TDS

https://drive.google.com/uc?usp=sharing&id=J7HjgHfzG0K3N3N9R8dK5pG3X_4uagwZ