Rigid Resin

iF3120w

Compatible to most LCD printers

Environmental-friendly and high quality raw materials ensuring low odor and low PII Just enjoy your printing in any conditions .

Updated date 2021.04.20

iF3120w Resin Material Properties Data

project	content	Data value	testing method
Physical and chemical properties (before curing)	colour	white/black/french blue/ green/yellow/gray/purple red/Pink skin	
	viscosity	340-360cps(25℃)	ASTM D1084
	density	1.10±0.05g/cm³	ASM D1875
Physical and chemical properties (after curing)	exposure time	10mj/cm²	405nm
	shrinkage	< 1.2%	
	hardness(D)	75D	ASTM D2240
	bending strength	45-55 MPa	ASTM D1781
	tensile Strength	40-50MPa	ASTM D5041
	flexural modulus	1200MPa	ASTM D747
	Impact resistance	120J/m	
	Temperature resistance	80℃	

Remark:

1. For environmental protection and safety, the products are made of imported raw materials, with low odor, low irritation and no prohibited substances such as bisphenol A.
2.A variety of colors for choice, fine color, solid color, natural, good light retention, not easy to fade.
3.The material is hard and tough balance, after curing is not easy to become brittle and cracking for a long time.
4.Easy to clean, and the surface is dry after curing.
5.Low linear and volume shrinkage, high molding fineness, on the right printer and parameters, can print a minimum 0.2mm support.
6.In the printing process, low calorific value, less damage to release film and machine.

Light source intensity comparison

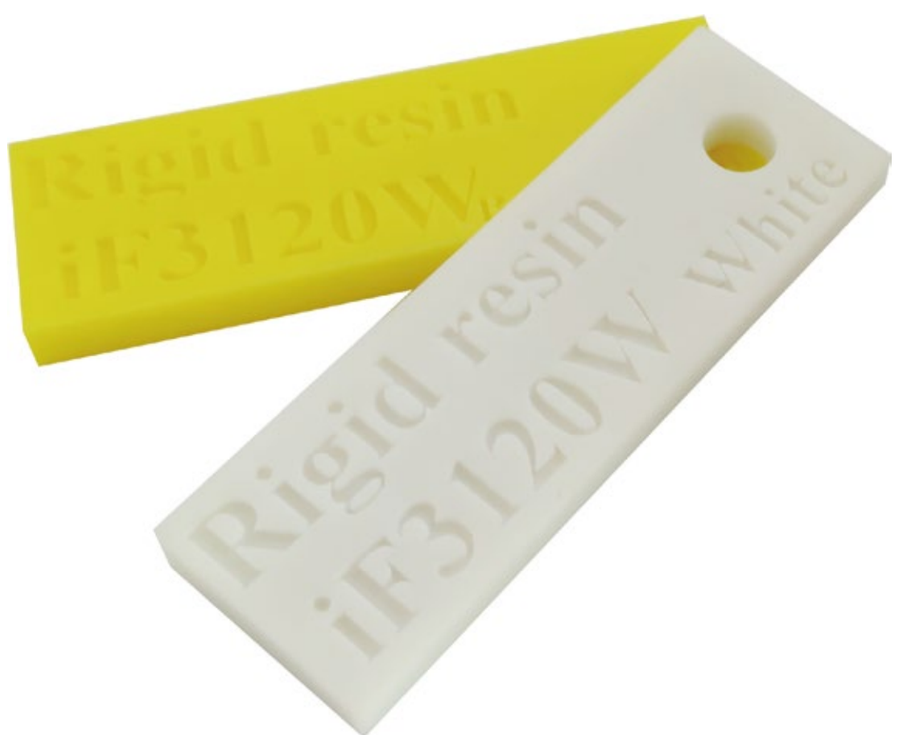
Machine type	DLP	L4K Pro	CREALITY	ANYCUBIC (2k)
Relative light intensity	5	1	0.6	0.4

Print parameter recommendation form

Material model	Material Colour	Recommended thickness	Light source wavelength
iF3120w	White / Bright yellow	0.05mm	405nm

machine	Bottom exposure	Normal layer exposure	Top support diameter	Support diameter
LCD(4K Mono)	60s	5 (4~8)s	0.6~0.8mm	0.8~1.2mm
Anycubic mono X	35s	4 (3-5)s	0.6~0.8mm	0.8~1.2mm
DLP	5s	2.5(2~4)s	0.5~0.8mm	0.8~1.2mm

Support density	Support angle	post-curing time (30W power)
50%	30%	3 min



Light source intensity comparison

Machine type	DLP	L4K Pro	CREALITY	ANYCUBIC (2k)
Relative light intensity	5	1	0.6	0.4

Print parameter recommendation form

Material model	Material Colour	Recommended thickness	Light source wavelength
iF3120w	French blue / Purple	0.05mm	405nm

machine	Bottom exposure	Normal layer exposure	Top support diameter	Support diameter
LCD(4K Mono)	60s	5.5 (5~8)s	0.6~0.8mm	0.8~1.2mm
Anycubic mono X	35s	5 (4-6)s	0.6~0.8mm	0.8~1.2mm
DLP	5s	2.5(2~4)s	0.5~0.8mm	0.8~1.2mm

Support density	Support angle	post-curing time (30W power)
50%	30%	3 min

Light source intensity comparison

Machine type	DLP	L4K Pro	CREALITY	ANYCUBIC (2k)
Relative light intensity	5	1	0.6	0.4

Print parameter recommendation form

Material model	Material Colour	Recommended thickness	Light source wavelength
iF3120w	Gray	0.05mm	405nm

machine	Bottom exposure	Normal layer exposure	Top support diameter	Support diameter
LCD(4K Mono)	60s	2.5s	0.6~0.8mm	0.8~1.2mm
Anycubic mono X	35s	1.5 (1-2)s	0.6~0.8mm	0.8~1.2mm
DLP	5s	1(1~2)s	0.5~0.8mm	0.8~1.2mm

Support density	Support angle	post-curing time (30W power)
50%	30%	3 min

Light source intensity comparison

Machine type	DLP	L4K Pro	CREALITY	ANYCUBIC (2k)
Relative light intensity	5	1	0.6	0.4

Print parameter recommendation form

Material model	Material Colour	Recommended thickness	Light source wavelength
iF3120w	Green	0.05mm	405nm

machine	Bottom exposure	Normal layer exposure	Top support diameter	Support diameter
LCD(4K Mono)	60s	12(10~13)s	0.6~0.8mm	0.8~1.2mm
Anycubic mono X	35s	6 (6-8)s	0.6~0.8mm	0.8~1.2mm
DLP	5s	3(3~5)s	0.5~0.8mm	0.8~1.2mm

Support density	Support angle	post-curing time (30W power)
50%	30%	3 min