

# Color Resin V5

## A Custom-Colorable 3D Printing Resin

3D print parts in colors that represent your brand, product line, or creative vision with accuracy and consistency. Choose any color to closely match final parts without painting, coating, or pigment mixing. Each order is custom-manufactured and quality checked, ensuring reliable results.

Color Resin V5 is a custom-colorable General Purpose Resin for Form 4 Generation 3D printers similar to Black Resin V5, Grey Resin V5, and White Resin V5. Users can expect this material to deliver similar dimensional accuracy, aesthetics, and mechanical properties.

**Realistic prototypes that match CMF of end-use parts**

**Differentiate parts of an assembly**

**Color-coded jigs and fixtures**

**Custom-colored end-use parts**



**FLGPC005**

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To the best of our knowledge the information contained herein is accurate. However, Formlabs, Inc. makes no warranty, expressed or implied, regarding the accuracy of these results to be obtained from the use thereof.

Material Properties	METRIC <sup>1,2</sup>		IMPERIAL <sup>1,2</sup>		METHOD
	Green	Post-Cured	Green	Post-Cured	
Tensile Properties					
Ultimate Tensile Strength	46 MPa	54 MPa	6672 psi	7832 psi	ASTM D638-14
Tensile Modulus	2200 MPa	2500 MPa	319 ksi	363 ksi	ASTM D638-14
Elongation at Break	22%	15%	22%	15%	ASTM D638-14
Flexural Properties					
Flexural Strength	82 MPa	91 MPa	11893 psi	13198 psi	ASTM D790-15
Flexural Modulus	2000 MPa	2450 MPa	290 ksi	355 ksi	ASTM D790-15
Impact Properties					
Notched Izod	36 J/m	34 J/m	0.673 ft-lb/in	0.636 ft-lb/in	ASTM D256-10
Thermal Properties					
Heat Deflection Temp. @ 1.8 MPa	47 °C	54 °C	117 °F	129 °F	ASTM D648-16
Heat Deflection Temp. @ 0.45 MPa	55 °C	62 °C	131 °F	144 °F	ASTM D648-16

## SOLVENT COMPATIBILITY

Percent weight gain over 24 hours for a printed and post-cured 1 x 1 x 1 cm cube immersed in respective solvent:

Solvent	24 hr weight gain, %	Solvent	24 hr weight gain, %
Acetic Acid 5%	1.2	Mineral oil, heavy	0.4
Acetone	0.4	Mineral oil, light	0.4
Bleach ~5% NaOCl	0.2	Salt Water (3.5% NaCl)	0.1
Butyl Acetate	0.1	Skydrol 5	0.2
Diesel Fuel	0.2	Sodium hydroxide solution (0.025% pH = 10)	0.1
Diethyl glycol monomethyl ether	0.4	Strong Acid (HCl Conc)	1.0
Hydraulic Oil	0.5	TPM	0.3
Hydrogen peroxide (3%)	<0.1	Water	0.1
Isooctane	<0.1	Xylene	0.1
Isopropyl Alcohol	0.1		

<sup>1</sup> Material properties may vary based on color, part geometry, print orientation, print settings, temperature, and disinfection or sterilization methods used.

<sup>2</sup> Data for post-cured samples were measured on Type IV tensile bars printed on a Form 4 printer with 100 µm layer height in a white colored resin, washed in a Form Wash for 10 minutes in >99% Isopropyl Alcohol, and post-cured at room temperature for 5 minutes in a Form Cure. Properties for other colors will be within ± 15% of published range.