

White Resin V4.1

An optimally-balanced White Resin for versatile applications

White Resin is perfect for general-purpose prototyping and design, and models with intricate details. With a matte surface finish, opaque appearance, and precise details, prints are ready to use right off the printer. Its neutral undertone makes a great base for parts that will eventually be painted or undergo other finishing processes.

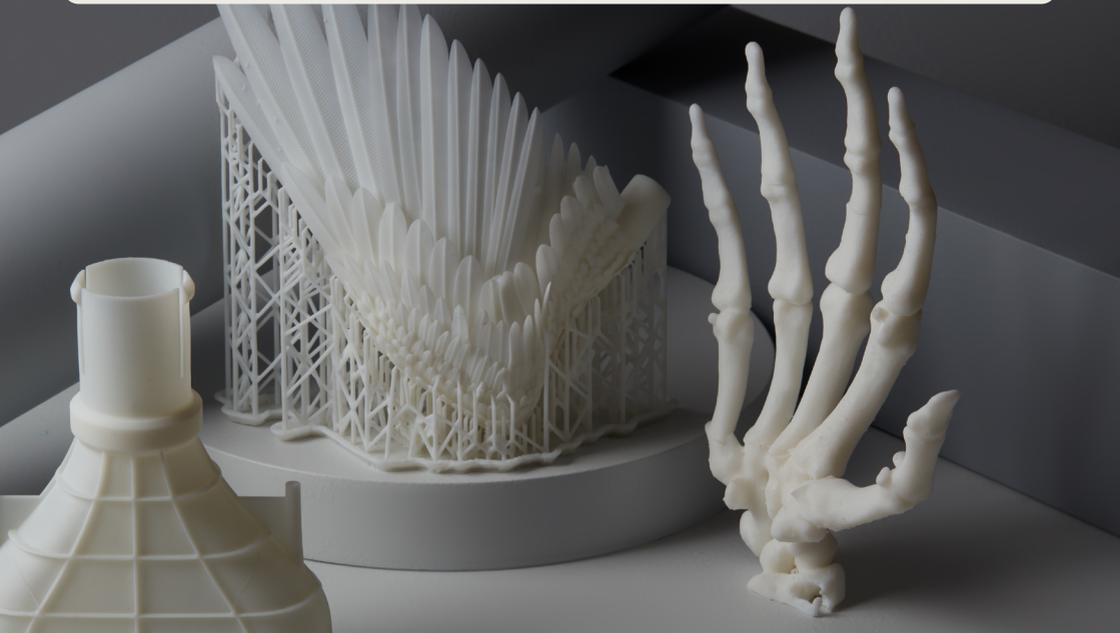
White Resin V4.1 is compatible with Form 3 Series printers. White Resin V4.1 produces brighter white parts compared to White Resin V4 (Legacy).

Form and fit prototyping

Presentation-ready models with fine features and intricate details

Anatomical models

Jigs and fixtures



FLGPWH41

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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 ¹		IMPERIAL ¹		METHOD
	Green	Post-Cured for 30 min at 60°C ²	Green	Post-Cured for 30 min at 140 °F ³	
Tensile Properties	METRIC ¹		IMPERIAL ¹		METHOD
Ultimate Tensile Strength	30 MPa	53 MPa	4351 psi	7687 psi	ASTM D638-14
Tensile Modulus	1479 MPa	2367 MPa	215 ksi	343 ksi	ASTM D638-14
Elongation at Break	13%	8%	13%	8%	ASTM D638-14
Flexural Properties	METRIC ¹		IMPERIAL ¹		METHOD
Flexural Strength	48 MPa	92 MPa	6962 psi	13343 psi	ASTM D790-15
Flexural Modulus	1309 MPa	2414 MPa	190 ksi	350 ksi	ASTM D790-15
Impact Properties	METRIC ¹		IMPERIAL ¹		METHOD
Notched Izod	29 J/m	27 J/m	0.551 ft-lb/in	0.511 ft-lb/in	ASTM D256-10
Thermal Properties	METRIC ¹		IMPERIAL ¹		METHOD
Heat Deflection Temp. @ 1.8 MPa	44 °C	55 °C	111 °F	131 °F	ASTM D648-16
Heat Deflection Temp. @ 0.45 MPa	50 °C	68 °C	122 °F	154 °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%	0.5	Mineral Oil (Heavy)	0.0
Acetone	3.1	Mineral Oil (Light)	0.0
Bleach ~5% NaOCl	0.4	Salt Water (3.5% NaCl)	0.4
Butyl Acetate	-0.1	Skydrol 5	0.2
Diesel Fuel	0.0	Sodium Hydroxide Solution (0.025% PH = 10)	0.4
Diethyl Glycol Monomethyl Ether	0.5	Strong Acid (HCl conc)	0.2
Hydraulic Oil	0.5	TPM	0.1
Hydrogen Peroxide (3%)	0.0	Water	0.5
Isooctane	0.0	Xylene	0.0
Isopropyl Alcohol	-0.1		

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

² Data was obtained from parts printed on a Form 3 printer with 100 µm White Resin V41 settings, washed in a Form Wash (2nd Generation) for 10 minutes in >99% Isopropyl Alcohol, and post-cured at 60 °C for 30 minutes in a Form Cure.

³ Data was obtained from parts printed on a Form 3 printer with 100 µm White Resin V41 settings, washed in a Form Wash (2nd Generation) for 10 minutes in >99% Isopropyl Alcohol, and post-cured at 140 °F for 30 minutes in a Form Cure.