

White Resin V5

An optimally-balanced White Resin for versatile applications

White Resin V5 is an exceptionally bright white General Purpose Resin, offering an optimal balance of fast print speed, high accuracy, presentation-ready appearance, strong mechanical properties, and an easy, reliable workflow.

Create parts that are stiff and strong with a surface finish that rivals injection molding. White Resin V5 is a matte, bright white that captures fine features accurately.

White Resin V5 is a new material formulation that leverages the Form 4 ecosystem to print three times faster than the previous version.

Form and fit prototyping

Presentation-ready models with fine features and intricate details

Anatomical models

Jigs and fixtures



**ORDER A FREE
SAMPLE PART →**



V5

FLGPWH05

* May not be available in all regions

MATERIAL PROPERTIES DATA

White Resin V5

	METRIC ¹			IMPERIAL ¹			METHOD
	Green	Post-Cured 5 min (Ambient) ²	Post-Cured 15 min at 60 °C ³	Green	Post-Cured 5 min (Ambient) ²	Post-Cured 15 min at 140 °F ³	
Tensile Properties							
Ultimate Tensile Strength	46 MPa	54 MPa	62 MPa	6672 psi	7832 psi	8992 psi	ASTM D638-14
Tensile Modulus	2200 MPa	2500 MPa	2675 MPa	319 ksi	363 ksi	388 ksi	ASTM D638-14
Elongation at Break	22%	15%	13%	22%	15%	13%	ASTM D638-14
Flexural Properties							
Flexural Strength	82 MPa	91 MPa	103 MPa	11893 psi	13198 psi	14938 psi	ASTM D790-15
Flexural Modulus	2000 MPa	2450 MPa	2750 MPa	290 ksi	355 ksi	399 ksi	ASTM D790-15
Impact Properties							
Notched Izod	36 J/m	34 J/m	32 J/m	0.673 ft-lbs/in	0.636 ft-lbs/in	0.598 ft-lbs/in	ASTM D4812-11
Thermal Properties							
Heat Deflection Temp. @ 1.8 MPa	47 °C	54 °C	59 °C	117 °F	129 °F	138 °F	ASTM D648-16
Heat Deflection Temp. @ 0.45 MPa	55 °C	62 °C	71 °C	131 °F	144 °F	160 °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%	0.9	Mineral oil (Heavy)	0.2
Acetone	4.9	Mineral oil (Light)	0.2
Bleach ~5% NaOCl	0.7	Salt Water (3.5% NaCl)	0.8
Butyl Acetate	0.3	Skydrol 5	0.5
Diesel Fuel	0.1	Sodium Hydroxide solution (0.025% PH 10)	0.8
Diethyl glycol Monomethyl Ether	1.0	Strong Acid (HCl conc)	0.5
Hydraulic Oil	0.2	Tripropylene glycol monomethyl ether	0.3
Hydrogen peroxide (3%)	0.9	Water	0.8
Isooctane (aka gasoline)	< 0.1	Xylene	< 0.1
Isopropyl Alcohol	0.3		

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 4 printer with 100 µm White Resin V5 settings, washed in a Form Wash for 5 minutes in ≥99% Isopropyl Alcohol, and post-cured at room temperature for 5 minutes in a Form Cure.

³ Data was obtained from parts printed on a Form 4 printer with 100 µm White Resin V5 settings, washed in a Form Wash for 5 minutes in ≥99% Isopropyl Alcohol, and post-cured at 60°C for 15 minutes in a Form Cure.