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GENERAL PURPOSE RESIN

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





FLGPWH05

Prepared 20/03/2024

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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 5 min at ambient temperature ²	Post-Cured for 15 min at 60 °C 3	Green	Post-Cured for 5 min at ambient temperature ²	Post-Cured for 15 min at 140 °F 3	
Tensile Properties	METRIC 1		IMPERIAL 1			METHOD	
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	METRIC 1			IMPERIAL 1		METHOD	
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		METRIC 1			IMPERIAL 1		METHOD
Notched Izod	36 J/m	34 J/m	32 J/m	0.673 ft-lb/in	0.636 ft-lb/in	0.598 ft-lb/in	ASTM D4812-1
Thermal Properties		METRIC 1			IMPERIAL 1		METHOD
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

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2.1 References

SOLVENT COMPATIBILITY

Percent weight gain over 24 hours for a printed 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.

Documents / Resources



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References

• User Manual

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