

Standard

Materials for High-Resolution Rapid Prototyping

High Resolution. For demanding applications, our carefully-engineered resins capture the finest features in your model.

Strength and Precision. Our resins create accurate and robust parts, ideal for rapid prototyping and product development.

Surface Finish. Perfectly smooth right out of the printer, parts printed on the Form 2 printer have the polish and finish of a final product.



CLEAR FLGPCL04 WHITE

BLACK FLGPWH04 FLGPGR04 FLGPBL04

COLOR



Material Properties Data

	METRIC ¹		IMPERIAL ¹		METHOD
	Green ²	Post-Cured ³	Green ²	Post-Cured ³	
Tensile Properties					
Ultimate Tensile Strength	38 MPa	65 MPa	5510 psi	9380 psi	ASTM D 638-10
Tensile Modulus	1.6 GPa	2.8 GPa	234 ksi	402 ksi	ASTM D 638-10
Elongation at Failure	12 %	6.2 %	12 %	6.2 %	ASTM D 638-10
Flexural Properties					
Flexural Modulus	1.25 GPa	2.2 GPa	181 ksi	320 ksi	ASTM C 790-10
Impactl Properties					
Notched IZOD	16 J/m	25 J/m	0.3 ft-lbf/in	0.46 ft-lbf/in	ASTM D 256-10
Temperature Properties					
Heat Deflection Temp. @ 264 psi	42.7 °C	58.4 °C	108.9 °F	137.1 °F	ASTM D 648-07
Heat Deflection Temp. @ 66 psi	49.7 °C	73.1 °C	121.5 °F	163.6 °F	ASTM D 648-07

¹Material properties can vary with part geometry, print orientation, print settings, and temperature.

Solvent Compatibility

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

Solvent	24 hr weight gain (%)	Solvent	24 hr weight gain (%)
Acetic Acid, 5 %	<1	Hydrogen Peroxide (3 %)	<1
Acetone	sample cracked	Isooctane	<1
Isopropyl Alcohol	<1	Mineral Oil, light	<1
Bleach, ~5 % NaOCI	<1	Mineral Oil, heavy	<1
Butyl Acetate	<1	Salt Water (3.5 % NaCl)	<1
Diesel	<1	Sodium hydroxide (0.025 %, pH = 10)	<1
Diethyl glycol monomethyl ether	1.7	Water	<1
Hydrolic Oil	<1	Xylene	<1
Skydrol 5	1	Strong Acid (HCI Conc)	distorted

 $^{^2}$ Data was obtained from green parts, printed using Form 2, 100 μm , Clear settings, without additional treatments.

 $^{^3}$ Data was obtained from parts printed using Form 2, 100 μ m, Clear settings and post-cured with 1.25 mW/cm 2 of 405 nm LED light for 60 minutes at 60 °C.