

Grey Resin V5

An optimally-balanced Grey Resin for versatile applications

Grey Resin V5 is an exceptionally versatile 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. Grey Resin V5 has a rich, matte color that captures fine features accurately.

Grey 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

General dental models

Jigs and fixtures



**ORDER A FREE
SAMPLE PART →**



V5

FLGPGR05

May not be available in all regions

| | 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 | 54 °C | 54 °C | 59 °C | 129 °F | 129 °F | 138 °F | ASTM D648-16 |
| Heat Deflection Temp. @ 0.45 MPa | 62 °C | 62 °C | 71 °C | 144 °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 Grey 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 Grey 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.