Model MD800

A fast-printing material for production of high-accuracy restorative models

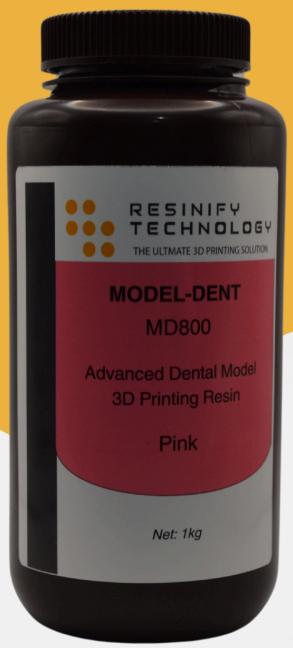
Model MD800 is engineered to meet the demanding standards of precision, reliability, and efficiency essential in restorative dentistry. It produces highly accurate models and dies, featuring crisp margins and precise contacts, ensuring superior quality results even under tight deadlines

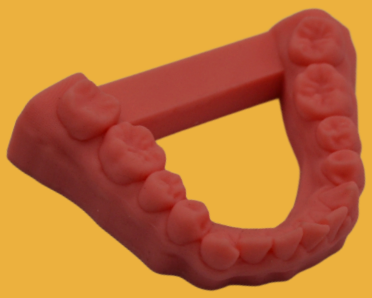
Crown and bridge models

Orthodontic models

Implant analog models

Diagnostic models

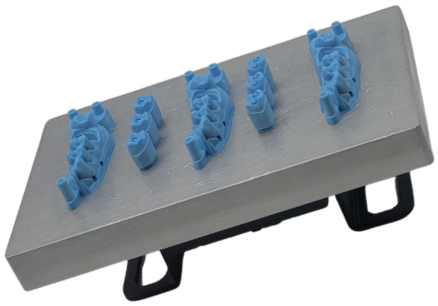




Available Color to Order; Gray, Blue and Pink

MATERIAL PROPERTIES DATA **Model MD800**

	METRIC 1		METHOD
	Green 2	**Post-Cured 3**	
Mechanical Properties			
Ultimate Tensile Strength	27 MPa	48 MPa	ASTM D 638-14
Tensile Modulus	1.1 GPa	2.3 GPa	ASTM D 638-14
Elongation at Break	14%	4.8%	ASTM D 638-14
Flexural Properties			
Flexural Strength	25 MPa	85 MPa	ASTM D 790-15
Flexural Modulus	0.67 GPa	2.2 GPa	ASTM D 790-15
Impact Properties			
Notched Izod	23 J/m	24 J/m	ASTM D 256-10
Unnotched Izod	300 J/m	325 J/m	ASTM D 4812-19
Thermal Properties			
Heat Deflection Temp. @ 1.8 MPa	41 °C	56 °C	ASTM D 648-16
Heat Deflection Temp. @ 0.45 MPa	7 °C	75 °C	ASTM D 648-16
Thermal Expansion	108 µm/m/°C	76 µm/m/°C	ASTM E 813-13



1 Material properties may vary based on part geometry, print orientation, print settings, and temperature.
2 Data for green samples were measured on Type IV tensile bars printed on a Form 3 printer with 100 µm Model Resin settings and washed in a Form Wash for 10 minutes in ≥99% Isopropyl Alcohol.
3 Data for post-cured samples were measured on Type IV tensile bars printed on a Form 3 printer with 100 µm Model Resin settings, washed in a Form Wash for 10 minutes in ≥99% Isopropyl Alcohol, and post-cured at 60°C for 5 minutes in a Form Cure.

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%	0.2	Mineral oil, heavy	0.2
Acetone	0.9	Mineral oil, light	0.2
Bleach ~5% NaOCl	0.1	Salt Water (3.5% NaCl)	0.2
Butyl Acetate	< 0.1	Skydrol 5	0.4
Diesel Fuel	0.1	Sodium hydroxide solution (0.025% pH = 10)	0.2
Diethyl glycol r monomethyl ether	< 0.1	Strong Acid (HCl Conc)	< 0.1
Hydraulic Oil	0.1	TPM	0.2
Hydrogen peroxide (3%)	0.1	Water	0.2
Isooctane	< 0.1	Xylene	< 0.1
Isopropyl Alcohol	< 0.1