

# DMR II

## Dental Model Resin

DMR II is a rigid dental model resin that can be printed quickly. It has excellent mechanical properties and vertical printing capabilities, and can achieve high-precision vertical printing. The DMR II material can be easily removed from the forming table and is extremely easy to clean. With its high-strength physical properties and good surface properties, the invisible orthosis and night bite plate can be easily removed from the DMR II model after thermoforming.



Strength



Vertical



Accurate



Fast



Lvory

Orange

US:

940 Old County Rd, Belmont, CA, 94002, USA

MAT #DMR112101-01 Rev1.0

## DMR II Technical Data Sheet:

Tensile Properties, ASTM D638	Metric	U.S.
Tensile Modulus	2972 MPa	431.03 ksi
Ultimate Tensile Strength	47 MPa	6.8 ksi
Elongation at Break	2.07 %	2.07 %
Impact Properties	Metric	U.S.
Notched Izod (Machined), 23°C, ASTM D256	13.65 J/m	0.26 ft-lbf/in
Notched Izod (Machined), 23°C, ISO 180/A	1.87 kJ/m <sup>2</sup>	0.89 ft-lb/in <sup>2</sup>
Flexural Properties, ASTM D790	Metric	U.S.
Flexural Strength	100 MPa	14.5 ksi
Flexural Modulus	3316 MPa	480.9 ksi
Thermal Properties, ASTM D648	Metric	U.S.
Heat Deflection Temperature @ 0.455 MPa/66 psi,ASTM D648	78.1 °C	172.6 °F
General Properties	Metric	
Hardness, Shore D, ASTM D2240	90D	
Density (cured resin),ASTM D792	1.22 g/cm <sup>3</sup>	
Density (liquid resin), ASTM D4052	1.13 g/cm <sup>3</sup>	
Viscosity, 25°C, ASTM D2196	440 cps	
Water Absorption, 24 hours, 23°C,ASTM D570	0.52 %	
Water Absorption, Long Term (14 Days),ASTM D570	1.91 %	

These data are typical values and were determined through testing on printers which are validated for use with Luxcreo's products. Mechanical properties will vary based on machine, part orientation, machine type, machine power, post curing of the printed parts, and cleaning. See product guide for post-processing procedure and best practices. Improper use or failure to adhere to the product guide may result in variations of color and mechanical properties. Luxcreo reserves the right to change material characteristics, and formulation without prior notification.