

Denture Base Resin V2

High-impact denture base material for lifelike, long-lasting prosthetics

Denture Base Resin V2 is a high-impact, Class II biocompatible material for producing durable, natural-looking dentures that exceed ISO standards. Three semi-translucent pink shades, broad workflow compatibility, and a streamlined post-processing protocol give dental professionals the confidence to guarantee their work for years of patient wear.

**V2****FLDBOP02****FLDBDP02****FLDBLP02**

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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	METHOD
	Post-Cured ^{1,2,3}	
Tensile Properties	METRIC	METHOD
Tensile Strength	57 MPa	ASTM D638-14
Tensile Modulus	2800 MPa	ASTM D638-14
Flexural Properties	METRIC	METHOD
Flexural Strength	67 MPa	ISO 20795-1
Flexural Modulus	2200 MPa	ISO 20795-1
Fracture Properties	METRIC	METHOD
Maximum Stress Intensity Factor (K _{max})	2.44 MPa-m ^{1/2}	ISO 20795-1
Work of Fracture (W _i)	1000 J/m ²	ISO 20795-1
Other Properties	METRIC	METHOD
Shore D Hardness	85D	ASTM D2240
Bulk Density	1.15 g/mL	ASTM D792-20
Viscosity at 25 °C	5000 cPs	ASTM D792-20
Liquid Density	1.08 g/mL	ASTM D792-20
Water Solubility	0.16 µg/mm ³	ISO 20795-1
Water Absorption	27 µg/mm ³	ISO 20795-1

Denture Base Resin V2 has been evaluated in accordance with ISO 10993-1:2018, Biological evaluation of medical devices - Part 1: Evaluation and testing within a risk management process, and ISO 7405:2018, Dentistry - Evaluation of biocompatibility of medical devices used in dentistry, and passed the requirements for the following biocompatibility risks:

ISO Standard	Description
EN-ISO 10993-3:2014	Not mutagenic
EN-ISO 10993-5:2009	Not cytotoxic
EN-ISO 10993-23:2021	Not an irritant
EN-ISO 10993-10:2021	Not a sensitizer
EN-ISO 10993-11:2017	Non toxic

The product was developed and is in compliance with the following ISO Standards:

ISO Standard	Description
EN ISO 13485:2016	Medical Devices – Quality Management Systems – Requirements for Regulatory Purposes
EN ISO 14971:2012	Medical Devices – Application of Risk Management to Medical Devices

¹ Material properties may vary based on part geometry, print orientation, print settings, temperature, and disinfection or sterilization methods used.

² Data for post-cured samples were measured on Type I tensile bars printed on a Form 4 printer with 100 µm Denture Base Resin V2 settings, washed in a Form Wash for 10 minutes in >99% Isopropyl Alcohol, and post-cured at 80°C for 30 minutes in a Form Cure L v1.

³ Denture Base Resin V2 was tested at NAMSA World Headquarters, OH, USA