

Denture Base and Teeth

Biocompatible Photopolymer Resin for Form 2

Formlabs is expanding access to digital dentures with an efficient, cost-effective manufacturing solution. Class II long-term biocompatible Digital Denture Resins enable dental professionals to produce 3D printed full dentures accurately and reliably.

Use [Denture Base Resin](#) for denture bases and try-ins.

Use [Denture Teeth Resin](#) for denture teeth.



FLDTA201

FLDBLP01

formlabs 

Prepared 01 . 08 . 2019
Rev 01 01 . 08 . 2019

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 Data

Denture Teeth (FLDTA201)	METRIC ¹	METHOD
	Postcured ²	
Flexural Strength	> 50 MPa	ISO 10477
Density	1.15 g/cm ³ < X <1.25 g/cm ³	ASTM D792-00

Denture Base (FLDBLP01)	METRIC ¹	METHOD
	Postcured ²	
Flexural Strength	> 65 MPa	ISO 20795-1
Density	1.15 g/cm ³ < X <1.25 g/cm ³	ASTM D792-00

Denture Base and Teeth resins were tested for biological evaluation of medical devices at WuXi Apptec, 2540 Executive Drive, St. Paul, MN, and is certified biocompatible per EN-ISO 10993-1:2009/ AC:2010:

- Non-mutagenic.
- Non-cytotoxic.
- Not induce erythema or edema reactions.
- Not a sensitizer.
- Not cause systemic toxicity.

Denture Teeth ISO Standard:

- EN-ISO 22112: 2017 (Dentistry – Artificial teeth for dental prostheses)
- Flexural Strength, Water sorption and Water solubility under EN-ISO 10477 (Dentistry – Polymer-based crown and veneering materials) Type 2 and Class 2

Denture Base ISO Standard

- EN-ISO 20795-1:2013 (Dentistry – Base Polymers – Part 1: Denture Base Polymers)

NOTES:

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

² Data refers to post-cured properties obtained after exposing green parts to 108 watts each of Blue UV-A (315 – 400 nm), in a heated environment at 80 °C (140 °F) and 1hr, with six (6) 18W/78 lamps (Dulux blue UV-A).