

# Denture Base

Dental Denture Base for High-Precision and Durability

DDB is a biocompatible material suitable for the printing of denture bases. Low shrinkage and high resolution allow for a precise fit. DDB is ideal for removable dentures that will be worn long-term and require resistance to abrasion as well as the look and feel of real performance.



Strong



Durable



Easy To Polish



Highly Resistant



DDB01



# DDB

Luxcreo’s Dental Model Material DDB is a light-curing resin for the 3D printing of orthodontic and dental models for use with DLP /LCD/SLA printers (385-405nm).

**Composition:** methacrylate, photo-initiator, inhibitor, and pigment

Standard / Method		Metric
Flexural Properties		
Flexural Strength	ASTM 790	110 MPa
Flexural Modulus	ASTM 790	2500 MPa
Tensile Properties		
Tensile Strength	ASTM D638	110
Elongation at Break	ASTM D638	20%
General Properties		
Hardness	Shore D	85D
Viscosity @ 25°C (cPS)	ASTM 7867	800
Sorption	ISO 20795-2	28
Solubility	ISO 20795-2	1.6
Free Monomer Extraction	ISO 20795-2	0.1%
Biocompatible		
Cytotoxicity	ISO 10993	Complies
Irritation	ISO 10993	Complies
sensitization	ISO 10993	Complies

These data were determined in accordance with ISO and ASTM standards and are pursuant to LuxCreo Quality System. This document is valid without signature.

These data are typical values and were determined through testing on DLP 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. This product is suitable for the manufacturing of denture bases. LuxCreo reserves the right to change material characteristics, and formulation without prior notification.