MATERIAL DATA SHEET



Crown & Bridge

Dental Crown & Bridge for High-Precision, High-Accuracy

Possessing high strength and toughness, DCB's balance between inorganic fillers and resin gives the material its distinct wear resistance. DCB is ideal for crown and bridge that will be worn long-term and require resistance to abrasion as well as the look and feel of real teeth. High precision and high accuracy enable a professional fit.



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Strong

Durable

Easy To Polish

Realistic





- US: 940 Old County Rd, Belmont, CA, 94002, U.S.
- CN: Room1017, Building S5, Jinyu Smart Factory, Building Material City Mid Road No.28, Haidian District, Beijing.

DCB

Luxcreo'sl DCB is a light-curing resin for the 3D printing of orthodontic crown and bridge 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 | 2300 MPa |
| Tensile Properties | | |
| Tensile Strength | ASTM D638 | 100 |
| Elongation at Break | ASTM D638 | 20% |
| General Properties | | |
| Hardness | Shore D | 83D |
| Viscosity @ 25°C (cPS) | ASTM 7867 | 500 |
| Sorption | ISO 20795-2 | <32 |
| Solubility | ISO 20795-2 | <1.6 |
| Free Monomer Extraction | ISO 20795-2 | <2.2% |
| 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 dental crown and bridge prosthesis. LuxCreo reserves the right to change material characteristics, and formulation without prior notification.

LuxCreo Metarial Properties – Crown & Bridge