MATERIAL DATA SHEET



Indirect Bonding Tray

Dental IBT for Precision and Strength

DIBT is specially formulated for printing indirect bonding trays that enable precise bracket placement. High tensile strength increases the ease of bracket placement, while flexibility allows for effortless removal.







Strong

Flexible

Highly Resistant



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.

DIBT

Luxcreo's Dental Material DIBT is a light-curing resin for the 3D printing of indirect bonding trays 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	55 MPa
Flexural Modulus	ASTM 790	1500 MPa
Tensile Properties		
Tensile Strength	ASTM D638	10
Elongation at Break	ASTM D638	60%
General Properties		
Hardness	Shore D	45A
Viscosity @ 25°C (cPS)	ASTM 7867	800
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 indirect bonding trays. LuxCreo reserves the right to change material characteristics, and formulation without prior notification.

LuxCreo Metarial Properties – Bonding Tray