

MEDICAL RESIN

Custom Tray

Biocompatible Photopolymer Resin for Form 2 and Form 3B

Use Custom Tray Resin to directly print impression trays for implants, dentures, crowns and bridges, and other comprehensive cases. Digitally manufactured impression trays provide consistent, accurate impressions for high-quality dentistry. Custom Tray Resin prints full impression trays quickly using 200 micron layer heights, reducing labor time and enabling higher throughput.

Impression Trays



V1

FLCTBL01

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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.

CUSTOM TRAY MATERIAL PROPERTIES DATA

	METRIC	IMPERIAL	
Mechanical Properties	Post-Cured ^{1,2}	Post-Cured ^{1,2}	Method
Ultimate Tensile Strength	74 MPa	11.7 ksi	ASTM D638-10 (Type IV)
Young's Modulus	2900 MPa	435 ksi	ASTM D638-10 (Type IV)
Elongation	3.2%	3.2%	ASTM D638-10 (Type IV)
Flexural Strength	110 MPa	15.9 ksi	ASTM D790-15 (Method B)
Flexural Modulus	2700 MPa	392 ksi	ASTM D790-15 (Method B)
Hardness Shore D	82 D	82 D	ASTM D2240-15 (Type D)

Disinfection Compatibility

Chemical Disinfection	70% Isopropyl Alcohol for 5 minutes
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Custom Tray Resin 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 7405:2009/(R)2015, *Dentistry - Evaluation of biocompatibility of medical devices used in dentistry*, and passed the requirements for the following biocompatibility risks:

ISO Standard	Description ³
EN ISO 10993-5:2009	Not cytotoxic
ISO 10993-10:2010/(R)2014	Not an irritant
ISO 10993-10:2010/(R)2014	Not a sensitizer

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 IV tensile bars printed on a Form 2 printer with 200 µm Custom Tray Resin settings, washed in a Form Wash for 10 minutes in 99% Isopropyl Alcohol, and post-cured at 60°C for 30 minutes in a Form Cure.

³ Custom Tray Resin was tested at NAMS World Headquarters, OH, USA.