DENTAL RESIN

ADDITIVE X

formlabs | dental

Dental LT Comfort

A Flexible And Durable Material For Optimally Comfortable Long-Term Splints, Night Guards, and Bleaching Trays

Directly print flexible occlusal splints in-house, more easily than ever. Printed splints are easily polished to high optical transparency, and offer enhanced comfort and durability that boosts patient adoption and compliance.

Occlusal Splints

Night Guards

Bleaching Trays

V1 **FLDLCO01** *** May not be available in all regions**

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MATERIAL PROPERTIES DATA **Dental LT Comfort Resin**

	METRIC [1]	METHOD
	Post-Cured [2]	
Mechanical Properties		
Elongation	33 %	ASTM D 638-14 (Type IV)
Flexural Properties		
Flexural Strength	21 MPa	ASTM D 790-15 (Method B)
Flexural Modulus	643 MPa	ASTM D 790-15 (Method B)
Hardness Properties		
Hardness Shore D	75D	ASTM D 2240-15 (Type D)
Impact Properties		
Notched IZOD	98 J/m	ASTM D 256-10 (Method A)
Other Properties		
Water Sorption	31 ug/mm^3	ISO 20795-2
Water Solubility	4 ug/mm^3	ISO 20795-2

Dental LT Comfort 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 7405:2018, Dentistry - Evaluation of biocompatibility of medical devices used in dentistry, and passed the requirements for the following biocompatibility risks:

ISO Standard	Description [3]
ISO 10993-5:2009	Not cytotoxic
ISO 10993-23: 2021	Not an irritant
ISO 10993-10:2021	Not a sensitizer
ISO 10993-11:2017	Not toxic
ISO 10993-3:2014	Not genotoxic

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 were measured on post-cured samples printed on a Form 3B with 100 µm Dental LT Comfort Resin settings, washed in a Form Wash for 10 minutes in 99% Isopropyl Alcohol, and post-cured at 60 C for 20 minutes in a Form Cure.

[3] Dental LT Comfort Resin was tested at NAMSA World Headquarters, OH, USA.

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