formlabs | dental

DENTAL RESIN

IBT Flex Resin

A Flexible, and Tear-Resistant Material for Printing Highly Accurate Indirect Bonding Trays and Direct Composite Restoration Guides with Enhanced Translucency

3D print flexible and tear-resistant translucent trays and guides that save you time and deliver consistent, predictable outcomes. IBT Flex Resin is a Class I biocompatible material with enhanced flexibility, strength, translucency, and color to guarantee optimal clinical outcomes while providing a great patient experience and for seamless and precise transfer of orthodontic brackets and restorative composite materials.

Direct Composite Restoration Guides

Indirect Bonding Trays

V1 **FLIBFL01**

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

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Material Properties		
	Post-Cured [1, 2]	**Method**
Disinfection Compatibility		
Tensile Strength	7.2 MPa	ASTM D412
Tensile Modulus	8 MPa	ASTM D412
Elongation at Break	135 %	ASTM D412
Hardness Shore A	77 - 80A	ASTM D2240
Transparency (2 mm sample)	85%	-

Disinfection Compatibility	
Chemical Disinfection	70% Isopropyl Alcohol for 5 minutes

IBT Flex 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	Met requirements of test
ISO 10993-23:2021	Met requirements of test
ISO 10993-10:2021	Met requirements of test

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 was obtained from parts printed using Form 3B(+), 100 µm, IBT Flex Resin settings, and using post-processing instructions listed in the IBT Flex Resin Manufacturing Guide.

[3] IBT Flex Resin was tested at NAMSA World Headquarters, OH, USA.