formlabs IBT Flex Resin Owner's Manual

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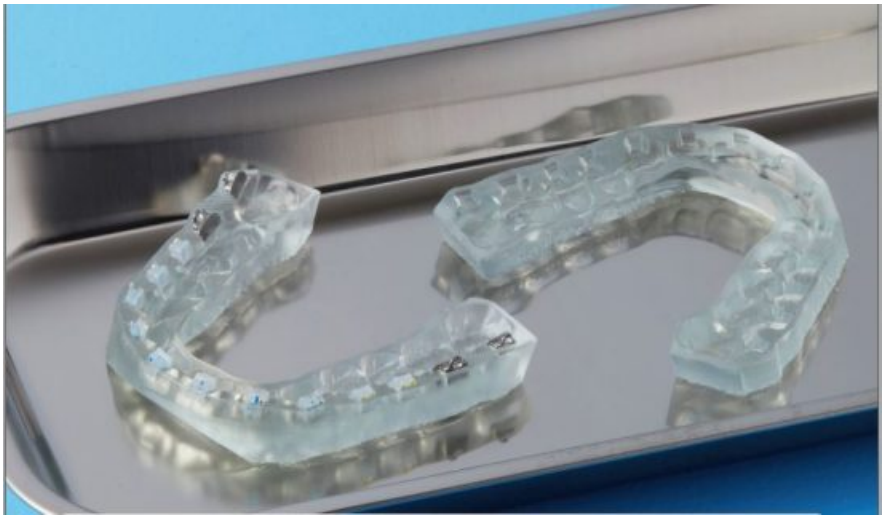

A Flexible, and Tear-Resistant Material for Printing Highly Accurate
Indirect Bonding Trays and Direct Composite Restoration Guides with Enhanced Translucency

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.

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.

Read More About This Manual & Download PDF:

Documents / Resources

	**formlabs IBT Flex Resin** [pdf] Owner's Manual V1 FLIBFL01, IBT Flex Resin, Flex Resin, Resin

References

- **User Manual**