keyprint®
by keystone industries

Item# 4200008/ 4220008

KeyOrtho IBT™ Technical Data Sheet

Indications for Use: KeyPrint® KeyOrtho IBT™ is a biocompatible photopolymer resin intended for the fabrication of indirect bonding trays used during orthodontic bracket placement.

Product Description: KeyPrint® KeyOrtho IBT™ is a liquid photopolymer resin designed for additive manufacturing in vat Polymerization DLP printers utilizing wavelengths between 385nm–405nm. Characterized by its flexibility, elongation at break, and adhesive release from dental cement, KeyOrtho IBT™ is a material designed for 3D printing of Indirect Bonding Trays.

CHARACTERISTICS	
Color	Clear/translucent
Viscosity	<1,000 cP

	TESTED PROPERTY	STANDARD/METHOD	RESULT
ASTM	Tensile Strength	ASTM D638	8.0 - 10.5 MPa
ASTM	Tensile Modulus	ASTM D638	15.5 - 31.0 MPa
ASTM	Elongation at Break	ASTM D638	> 130%
ISO	Free Monomer Extraction	ISO 20795-2	< 2.2%
BIO	Cytotoxicity	ISO 10993	PASS
BIO	Orthodontic Adhesive Release	Internal	PASS

Data represents typical values and were determined through testing on Asiga printers which are validated for use with select KeyPrint products. Mechanical properties will vary based on machine, part orientation, machine type, machine power, post cure box used, and cleaning. See Instructions for Use for post-processing procedure and best practices. Improper use or failure to adhere to the Instructions for Use may result in variations of color and mechanical properties. This product is suitable for the manufacturing of flexible indirect bonding trays for orthodontic bracket placement. Keystone Industries reserves the right to change material characteristics, and formulation without prior notification.

Composition: methacrylate, photo-initiator, inhibitor, and pigments

Validations: See Keystone's website for validated printers and post cure units

This data was determined in accordance with ISO and ASTM standards and are pursuant to Keystone Industries quality system. This document is valid without signature.

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