keyprint®
by keystone industries

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KeyPrint® KeyDenture Try-In™
Technical Data Sheet

Indications for Use: KeyPrint KeyDenture Try-In is indicated for the fabrication of trial dentures for try-in verification, including full and partial removable/fixed dentures.

Product Description: KeyPrint KeyDenture Try-In is a light-curing resin for the 3D printing of biocompatible trial dentures for use with DLP printers (385-405nm).

CHARACTERISTICS	
Color	A1, B1, BL4
Density	1.0–1.15 g/cm³
Viscosity	~360 cP @ 25C

	TESTED PROPERTY	STANDARD/METHOD	PASSING CRITERIA	RESULT
ASTM	Flexural Strength	ASTM D790	> 56 MPa*	56-68 MPa
	Flexural Modulus	ASTM D790	> 1400 MPa*	1500-1750 MPa
	Elongation at Break	ASTM D638	>12%	30-43%
	Shore D Hardness	ASTM D2240	> 80D	80D
ISO	Water Sorption	ISO 20795-1	< 32 ug/mm³	9-13 ug/mm³
	Water Solubility	ISO 20795-1	< 5 ug/mm³	1.10 ug/mm³
	Free Monomer Extraction	ISO 20795-1	< 2.2%	PASS
BIOCOMPATIBILITY	Cytotoxicity	ISO 10993-5	PASS	
	Irritation	ISO 10993-10	PASS	
	Sensitization	ISO 10993-10	PASS	

*Denotes Keystone determined passing criteria based on design requirements.

These data are typical values and were determined through testing on 3D printers which are validated for use with KeyPrint® products. Mechanical properties will vary based on machine, part orientation, machine type, machine power, post curing of the printed parts, and cleaning. See product guide for post-processing procedure and best practices. Improper use or failure to adhere to the product guide may result in variations of color and mechanical properties. This product is suitable for the manufacturing of short term trial dentures. Keystone Industries reserves the right to change material characteristics, and formulation without prior notification.

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

These data were determined in accordance with ISO and ASTM standards and are pursuant to Keystone Industries Quality System. This document is valid without signature.

keystone industries

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