

Indications for Use: KeyPrint KeyDenture[®] Base is a photopolymer resin indicated for the 3D fabrication of denture bases, including removable full and partial dentures, in dental laboratories. Fabrication requires a computer-aided design and manufacturing (CAD/CAM) system and 3D printer.

Product Description: KeyPrint[®] KeyDenture[®] Base is designed for additive manufacturing in vat polymerization 3D printers utilizing wavelengths between 385nm-405nm. KeyDenture[®] Base is intended to be used within a computer-aided design and manufacturing (CAD/CAM) digital dentistry system that includes a 3D scanner, design software, 3D printer, and post-cure unit for the fabrication of oral denture appliances for fully and partially edentulous patients. For any components that are used in conjunction with KeyDenture[®] Base, the user should review all applicable product labeling including Instructions for Use, user manuals, and other associated labeling. Strict adherence to all labeling is critical in assuring a safe and effective printed appliance.

CHARACTERISTICS

Colors Original, Light Reddish Pink, Chroma Essence, Dark Veined

Viscosity @25 C 1500-1900 cP

	TESTED PROPERTY	STANDARD/METHOD	RESULT
ASTM	Strain at break	ASTM D638-14	>50%
	Flexural Modulus	ISO 20795-1	≥2000 MPa
ISO	Maximum Stress Intensity Factor	ISO 20795-1	≥1.9 MPa m ^{1/2}
	Total Fracture Work	ISO 20795-1	≥900 J/m ²
	Water Sorption	ISO 20795-1	≤32 µg/mm ³
	Water Solubility	ISO 20795-1	≤1.6 µg/mm ³
	Biocompatibility	ISO-10993-1	Pass

The data represents typical values and was determined through testing on Vat Polymerization printers that are validated for use with KeyPrint[®] products. Mechanical properties may vary depending on the machine, part orientation, machine type, machine power, post-curing of printed parts, and cleaning. Please refer to the product guide for post-processing procedures and best practices. Failure to follow the product guide may result in variations in color and mechanical properties.

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.