

keyprint<sup>®</sup>

by keystone industries



# What Dental Professionals Think of KeyPrint®

“Keystone’s are the highest quality materials we have seen, and we are eagerly integrating them into our digital workflow.”

— JAY COLLINS, OWNER OF CORNERSTONE DENTAL LABS

“We’ve been receiving great feedback from dentists that KeySplint Hard® is surviving even the most severe bruxers.”

— CHRIS KABOT, VICE PRESIDENT, RESEARCH AND DEVELOPMENT AT AFFORDABLE CARE

“KeyGuide® resin is a perfect fit for our laboratory. The material prints quickly and accurately in our 3D printer and polishes to a beautiful high luster shine. Our doctors are loving it!”

— KEN KINCAID, CDT, RG, TE

“KeySplint Soft® has the unique ability to change flexural properties over the temperature range of the indicated uses. These dynamic properties add a unique characteristic that should extend the life of the splint device by preventing the degradation due to brittle fracture.”

— MARK LATTA, DMD, MS

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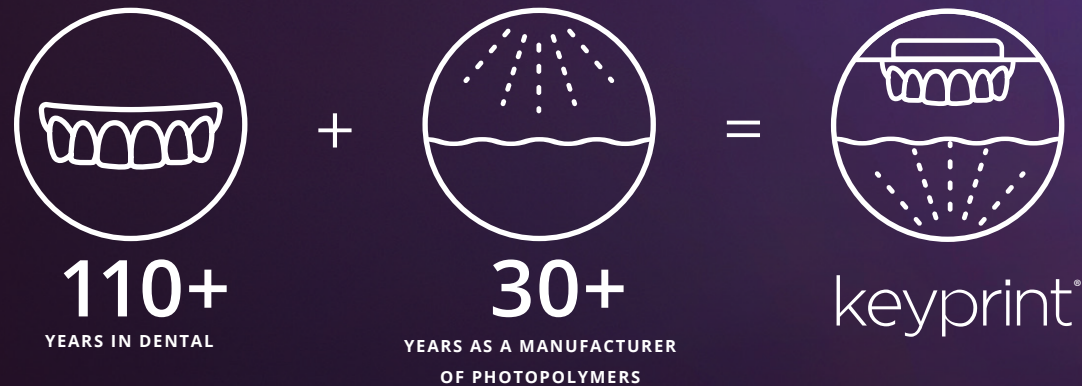
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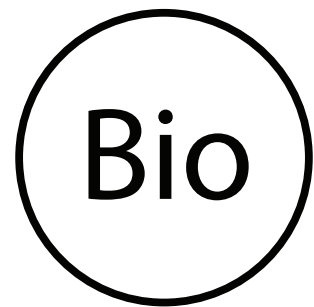
# Our KeyPrint Journey

In an industry that is increasingly defined by the ability to innovate, adapt, and produce consistent results, Keystone Industries introduced KeyPrint in 2018, a line of precision 3D resins specifically formulated for the dental industry. Keystone has innovatively combined its unique blend of dental and photopolymer expertise to deliver the highest quality 3D printing resins to the dental market.

Entirely designed and produced in the USA, the full KeyPrint line is available throughout North America, Europe, and other global territories. KeyPrint resins are compatible with DLP, LED and LCD printers (wavelengths of 385-405 nm). Keystone is validating 3D printers on an ongoing basis to ensure our KeyPrint resins work reliably in multiple open-source printers.

Prioritizing clinical results and patient safety, KeyPrint resins are subjected to a battery of biocompatibility tests in accordance with global regulatory standards. Each biocompatible print complies with international standards to ensure efficacy and effectiveness for the patient. KeyPrint's robust formulations guarantee a 3-year shelf life for the bottle of resin, along with color stability.





SAFE AND EFFECTIVE

# Biocompatible & Medical Device Resins



COMING SOON TO THE USA AND CERTAIN GLOBAL TERRITORIES

**ORIGINAL**

- #4220430 (1kg bottle)
- #4200430 (0.5kg bottle)

**LIGHT REDDISH PINK**

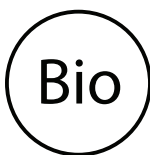
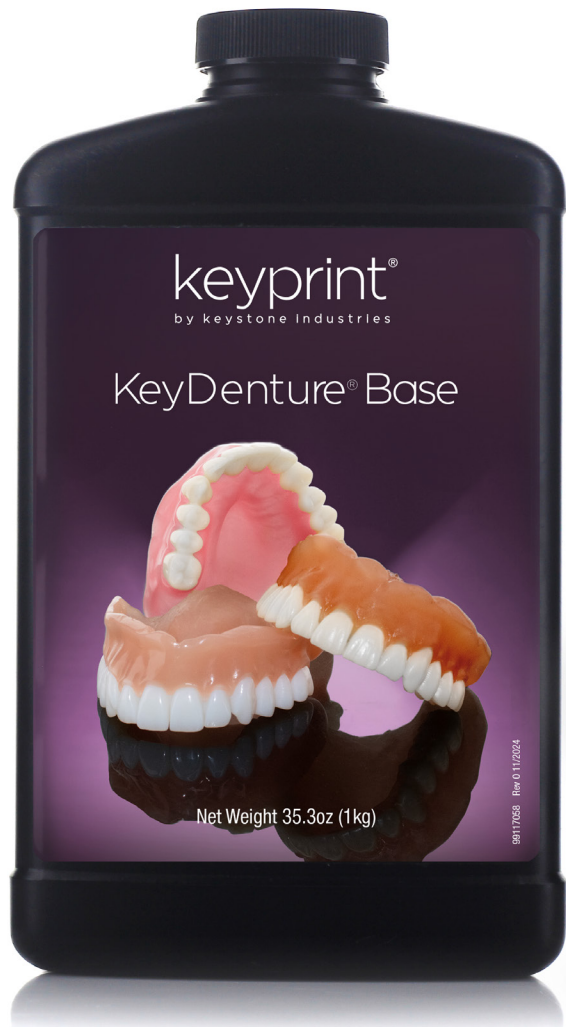
- #4220434 (1kg bottle)
- #4200434 (0.5kg bottle)

**CHROMA ESSENCE**

- #4220432 (1kg bottle)
- #4200432 (0.5kg bottle)

**DARK VEINED**

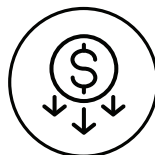
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- #4200431 (0.5kg bottle)



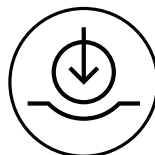
**BIOCOMPATIBLE**



**TPO FREE**



**COST EFFECTIVE**



**DURABLE**

COMING SOON

# KeyDenture<sup>®</sup> Base

Engineered for precision and durability, our High-Impact 3D Denture Base sets a new standard for digital denture fabrication. Designed for fast-printing and efficient workflows, KeyDenture Base ensures long-lasting performance and reliability for your patients. Available in four classic Diamond D shades, it provides a natural, aesthetically pleasing appearance that exceeds industry standards. Ideal for dental labs and clinics, KeyDenture Base combines strength, beauty, and compatibility for seamless integration into your workflow.



**FEATURES**

- HIGH-IMPACT DURABILITY; FLEXIBLE WITHOUT BEING BRITTLE
- REALISTIC, LIFE-LIKE RECREATION OF NATURAL GINGIVAL TISSUE
- LOW VISCOSITY ALLOWS LABS TO PRINT FASTER
- COMFORTABLE FOR THE PATIENT
- COMPATIBLE WITH DIGITAL LABORATORY WORKFLOWS/ POPULAR TOOTH MATERIALS
- EXCELLENT RETENTION

PROPERTY	METHOD	KEYDENTURE BASE
Strain at break	ASTM D638-14	>50%
Flexural Modulus	ISO 20795-1	2000-3000 MPa
Maximum Stress Intensity Factor	ISO 20795-1	1.9-2.5 MPa m <sup>1/2</sup>
Total Fracture Work	ISO 20795-1	2500-5000 J/m <sup>2</sup>
Water Sorption	ISO 20795-1	31.7 ug/mm <sup>3</sup>
Water Solubility	ISO 20795-1	0.8 ug/mm <sup>3</sup>
Gardner Impact		>10 in-lb
Viscosity @ 25°C		1500-1900 cP
Biocompatibility	ISO 10993-1	Pass

WHITE 

#4220200 (1kg bottle)

BLACK 

#4220201 (1kg bottle)

PURPLE 

#4220202 (1kg bottle)

GREEN 

#4220203 (1kg bottle)

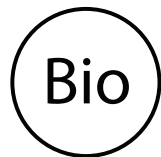
RED 

#4220204 (1kg bottle)

AVAILABLE IN THE USA, CANADA, EU,  
AND CERTAIN GLOBAL TERRITORIES



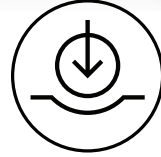
VIEW KEYGUARD  
FINISHING AND  
POLISHING  
RECOMMENDATIONS



BIOCOMPATIBLE



STRONG



DURABLE



COMFORTABLE

# KeyGuard™

KeyGuard™ precision dental resin produces custom-fit mouthguards for unbeatable comfort and protection!



## FEATURES

- BIOCOMPATIBLE
- PRECISE FIT FOR ENHANCED COMFORT AND PERFORMANCE
- PROTECTION ONLY WHERE NEEDED WITH COMPLETE DESIGN FREEDOM
- OPTIMIZED COST EFFICIENCY

PROPERTY	METHOD	KEYGUARD
Tear Strength	ASTM D624-00	30 kN/m
Hardness	ASTM D2240-00, 25C @ 0 sec	75-90 A
Impact Strength	ISO 179-1	27.5 kJ/m <sup>2</sup>
Impact Resistance	ISO 179-1	220 J/m
Water Sorption	ASTM D570 @ 3hr	5.7%
Tensile Cyclic Hysteresis	Energy returned @ 25C Energy lost @ 25C	27% 73%
Elongation at break (strain)	ASTM D638	130%
Liquid Viscosity	Internal	900cP
Biocompatibility	ISO 10993-1	Pass

FDA 510K CLEARED | CE MARKED (CLASS IIa) | HEALTH CANADA LICENSED  
 AVAILABLE IN THE USA, CANADA, EU, AUS AND CERTAIN GLOBAL TERRITORIES

“I honestly believe this will change printed splints forever. It has unbelievable fracture resistance and mind blowing elastic memory.” — JAY PATRICK, DENTAL DEVICES BY JASON



Utilizing unique technologies, Keystone Industries has developed a one-of-a-kind 3D printing resin for the fabrication of flexible, durable dental splints and nightguards. This DLP-optimized resin is an exceptional printing material that combines the strength needed to protect teeth against disorders like bruxism, with added flexibility for better patient comfort.



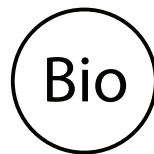
VIEW OUR KEYSPLINT  
 SOFT VIDEO!

TINTED

- #4200005 (0.5kg bottle)
- #4220005 (1kg bottle)

CLEAR

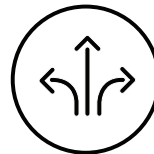
- #4200161 (0.5kg bottle)
- #4220161 (1kg bottle)



BIOCOMPATIBLE



STRONG



FLEXIBLE



EASY TO POLISH



EASILY CLEANED

# KeySplint Soft®

## Revolutionizing Night Guard and Splint Technology



FEATURES

- STRONG & FLEXIBLE; NOT BRITTLE
- BIOCOMPATIBLE MEDICAL DEVICE
- TRANSLUCENT
- STATE OF THE ART TECHNOLOGY
- BPA, MMA & PHTHALATE FREE

PROPERTY	METHOD	KEYSPLINT SOFT
Ultimate Flexural Strength	ISO 20795-2	2.6–4.4 MPa
Flexural Modulus	ASTM D790	1356 MPa
Tensile Strength	ASTM D638	52 MPa
Young's Modulus Tensile	ASTM D638	1790 MPa
Water Sorption	ISO 20795-2	< 18 ug/mm <sup>3</sup>
Elongation at Break	ASTM D638	110%
Biocompatibility	ISO 10993-1	Pass

# Doctors are loving KeySplint Soft® for their patients and their practice!

“KeySplint Soft offers unmatched durability and patient comfort. Combine that with the faster turnaround and easy replacement for night guard/splint fabrication, and you’ve got a solution that will have doctors wondering how they ever managed to practice without it.”

— DR. BRANDON OWEN, OWEN ORTHODONTICS LLC, LAKEWAY, TX

“KeySplint Soft’s unique thermoplastic features allow me to design guards that are snug but the patient loves the comfortable feel.”

— MICHAEL D SCHERER, DMD, MS, APC & MELISSA D SHOTELL, DMD, MS, SONORA, CA

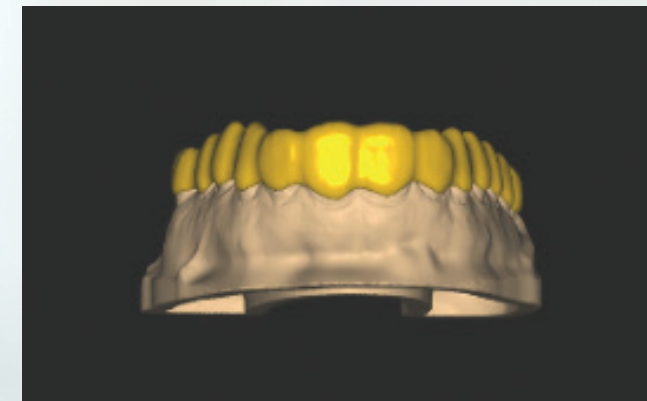
CHECK OUT OUR  
INDEPENDENT  
WEAR STUDY!



✔ **STRONG YET FLEXIBLE; NOT BRITTLE**  
Combines strength needed to protect teeth with added flexibility for better patient comfort.



✔ **EASILY CLEANED AND MAINTAINED**  
Easily cleaned by the patient.



✔ **HIGHLY PRECISE DEVICES**  
Precise, strong and smooth finished parts. Limited remakes and repairs can be done quickly if needed, saving time for doctors!



✔ **ELASTIC MEMORY FOR EASY PLACEMENT**  
KeySplint Soft can be warmed in water for easy placement and minimal chairside adjustments, saving time for doctors!

FDA 510K CLEARED | CE MARKED (CLASS IIa) | HEALTH CANADA LICENSED  
 AVAILABLE IN THE USA, CANADA, EU, AUS AND CERTAIN GLOBAL TERRITORIES

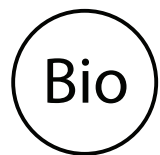
“The KeySplint Hard material exhibited excellent wear resistance- equal to the lab processed Lucitone 199. Further the wear pattern suggests excellent wear resistance without tearing or cracking, suggesting excellent resistance to fatigue failure.” — DR. MARK A. LATTA, DMD, MS

TINTED

#4200004 (0.5kg bottle)  
 #4220004 (1kg bottle)

CLEAR

#4200011 (0.5kg bottle)  
 #4220011 (1kg bottle)



BIOCOMPATIBLE



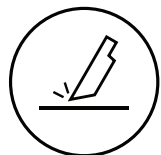
DURABLE



EASY TO POLISH



EASILY CLEANED



ABRASION RESISTANT

# KeySplint Hard<sup>®</sup>



The newest member of the KeySplint family, KeySplint Hard is designed for rigid dental splints. KeySplint Hard provides therapy for bruxism and cases where tooth immobilization is needed.



FEATURES

- BIOCOMPATIBLE MEDICAL DEVICE
- UNITED STATES FDA 510(K) CLEARED
- HEALTH CANADA LICENSED
- CE MARKED (CLASS IIA)
- HARD FOR RIGID SPLINTS
- BPA, MMA & PHTHALATE FREE

PROPERTY	METHOD	KEYSPLINT HARD
Flexural Strength	ISO 20795-2	60-65 MPa
Flexural Modulus	ISO 20795-2	1510-1600 MPa
Water Sorption	ISO 20795-2	18 µg/mm <sup>3</sup>
Elongation at Break	ASTM D638	9%
Biocompatibility	ISO 10993-1	Pass

AVAILABLE IN THE USA, CANADA, EU, AUS  
AND CERTAIN GLOBAL TERRITORIES

A1



#4200401 (0.5kg bottle)  
#4220401 (1kg bottle)

B1



#4200406 (0.5kg bottle)  
#4220406 (1kg bottle)

BL4



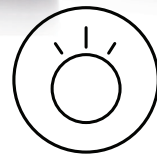
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#4220420 (1kg bottle)



BIOCOMPATIBLE



COST EFFECTIVE



EXCEPTIONAL SURFACE

# KeyDenture Try-In™



KeyDenture Try-In takes the uncertainty out of the denture fitting process. Designed for precision and efficiency, KeyDenture Try-In is a photopolymer resin indicated for 3D printing of biocompatible, short-term trial dentures, intended for evaluation of fit, occlusion, esthetics, and phonetics during try-in appointments.



## FEATURES

- COST EFFECTIVE FOR TRY-IN DENTURES
- EXCEPTIONAL SURFACE QUALITY
- EASY TO CHARACTERIZE
- POLISHES TO HIGH LUSTER
- BIOCOMPATIBLE MEDICAL DEVICE
- WIDE VARIETY OF KEYPRINT COMPATIBLE WORKFLOWS
- BPA, MMA & PHTHALATE FREE

PROPERTY	METHOD	KEYDENTURE TRY-IN
Flexural Strength	ASTM D790	56-68 MPa
Flexural Modulus	ASTM D790	1500-1750 MPa
Water Sorption	ISO 20795-1	9-13 µg/mm <sup>3</sup>
Elongation at Break	ASTM D638	30-43%
Biocompatibility	ISO 10993-1	Pass

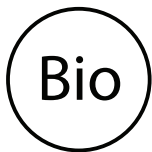
AVAILABLE IN THE USA, CANADA, EU, AUS AND CERTAIN GLOBAL TERRITORIES

“When we tested this material in the beginning, I was surprised. It prints really well and the fit was very precise. It was really easy to use. We are definitely impressed with it. We will no longer be outsourcing our surgical guides.” — JESSICA BIRRELL, CDT

#4200001 (0.5kg bottle)  
#4220001 (1kg bottle)



VIEW OUR STERILIZATION PROTOCOL!



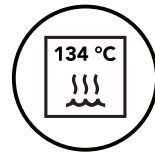
BIOCOMPATIBLE



STRONG



EASY TO POLISH



AUTOCLAVABLE

# KeyGuide®

KeyGuide is ideal for fabricating transparent and stable surgical guides, which enable the placement of implants at a precise angle and depth.

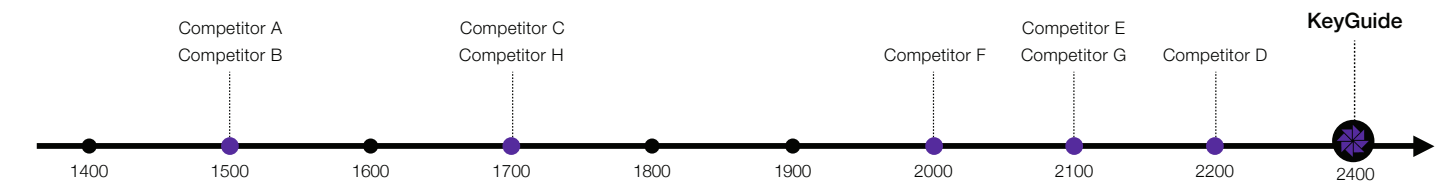


Photos courtesy of August De Oliveria, DDS.

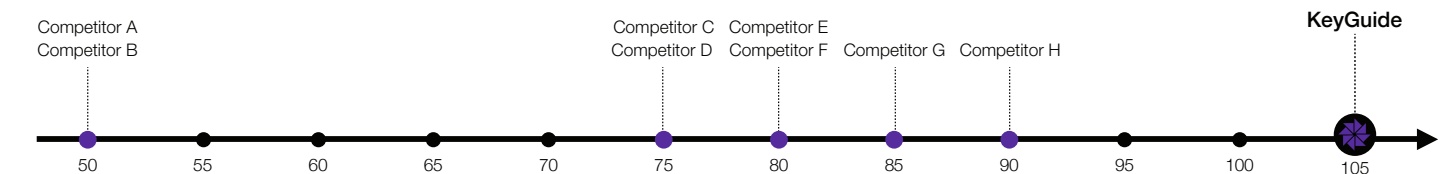
## FEATURES

- STRONG
- BIOCOMPATIBLE MEDICAL DEVICE
- EASY TO POLISH
- AUTOCLAVABLE AND COLOR STABLE
- BPA, MMA & PHTHALATE FREE

## FLEXURAL MODULUS (MPa)



## FLEXURAL STRENGTH (MPa)



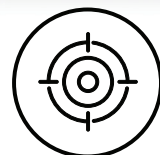
AVAILABLE IN THE USA, CANADA, EU, AUS AND CERTAIN GLOBAL TERRITORIES

#4200007 (0.5kg bottle)

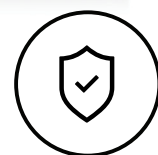
#4220007 (1kg bottle)



**BIOCOMPATIBLE**



**IMPRESSION ACCURACY**



**STRONG**

# KeyTray™

KeyTray is a strong, biocompatible 3D printing resin designed to create customized, individual impression trays quickly and with precision. The material is strong and durable to withstand the forces of taking a patient impression and removing the tray from the oral cavity. It is compatible with all types of impression material.

## FEATURES

- **BIOCOMPATIBLE MEDICAL DEVICE**
- **NO PRELIMINARY CAST REQUIRED**
- **SAVES TIME BY ELIMINATING STONE MODELS**
- **IMPROVED IMPRESSION ACCURACY**
- **COMPOUND WAXES AND BORDER MOLDING MATERIALS WILL ADHERE TO TRAY**
- **BPA, MMA & PHTHALATE FREE**



PROPERTY	METHOD	KEYTRAY
Flexural Strength	ASTM D790	84.7 MPa
Flexural Modulus	ASTM D790	1913 MPa
Tensile Strength	ASTM D638	62.1 MPa
Tensile Young's Modulus	ASTM D638	2056 MPa
Elongation at Break	ASTMD638	26.4%
Shore D Hardness		86.5 D

**AVAILABLE IN THE USA, CANADA, EU, AUS AND OTHER GLOBAL TERRITORIES**

“You can print these things all day long and not smell anything, the odorless feature is great. This is also the easiest to peel away of any of the different resins that we’ve ever tried for the indirect bond.” — **BRANDON OWEN DDS, MS**

#4200008 (0.5kg bottle)  
#4220008 (1kg bottle)



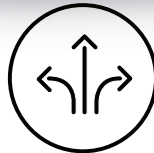
VIEW OUR  
KEYORTHO IBT VIDEO!



**BIOCOMPATIBLE**



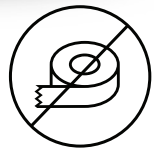
**PRECISE**



**FLEXIBLE**



**ODORLESS**



**NON-STICK**

# KeyOrtho IBT™

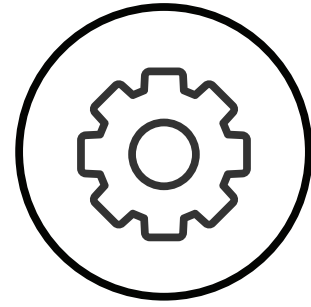
KeyOrtho IBT is ideal for printing orthodontic transfer trays for positioning brackets. KeyOrtho IBT's translucency allows for precise positioning before and during bracket placement. Its high tensile strength allows for easy application of brackets in a single step, reducing chair time to minutes. It is flexible for easy removal, and works with all general bracket systems. It is also odorless and tasteless for patient comfort.



**FEATURES**

- **BIOCOMPATIBLE MEDICAL DEVICE**
- **ODORLESS & TASTELESS**
- **ADHESIVES RELEASE EASILY FROM TRAY**
- **TRANSLUCENT FOR EASY POSITIONING**
- **PRECISE**
- **FLEXIBLE**
- **BPA, MMA & PHTHALATE FREE**

PROPERTY	METHOD	KEYORTHO IBT
Tensile Strength	ASTM D638	8.0 - 10.5 MPa
Tensile Young's Modulus	ASTM D638	15.5 - 31.0 MPa
Elongation at Break	ASTM D638	> 130%
Biocompatibility	ISO 10993-1	Pass
Viscosity @ 25°C	ASTM D7867	<1000 cP
Orthodontic Adhesive Release		Pass



KEYPRINT WORKFLOW VALIDATION

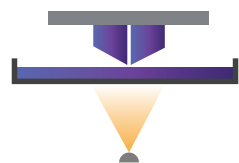
# Consumer Confidence in Safety & Efficacy



1  
DESIGN



2  
PRINT



3  
POST WASH



4  
POST CURE



OUR OPEN SOURCE PHILOSOPHY

Keystone is always validating new printers to ensure that KeyPrint resins work reliably in as many open-source printers as possible. We can work with you to optimize your printer settings to work with KeyPrint, but Keystone does not guarantee high-quality print results from non-validated printers.

KeyPrint resins are designed to work in 385-405 nm DLP, LED and LCD printers to best yield detailed parts faster and with superior accuracy. For customers looking to purchase resins designed for SLA and other printer technologies, Keystone is willing and able to discuss developing specialized resins for your system.

DESIGN

We work with all open source dental design software:

- ✓ 3Shape
- ✓ Dental Wings
- ✓ Exocad
- ✓ D3Tool
- ✓ Blue Sky Bio
- ✓ CADflow.ai

PRINTER VALIDATIONS

Choosing one of Keystone's validated partner printers guarantees:

- ✓ Printing settings tested and approved by Keystone's Technical Team
- ✓ Optimal printing accuracy for all KeyPrint Resins
- ✓ Passing biocompatibility checks on medical device resins
- ✓ Technical support from both the Printer Partner and Keystone



VIEW KEYSTONE'S PRINTER VALIDATIONS

POST WASH

Following Keystone's validated post wash protocol is critical to a successful 3D printing digital workflow. All KeyPrint resins require post wash.

*\*Please consult individual product IFUs for proper post wash instructions*

POST CURE

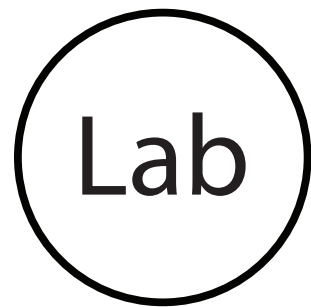
3D printed parts require additional treatment after printing to ensure they have:

- ✓ Biocompatibility for intraoral use
- ✓ Color stability
- ✓ Ideal physical properties

All KeyPrint resins require UV Curing after post wash. Keystone publishes the validated post cure units and cure times to ensure the indicated devices are safe and effective.\*

NOTE: Nitrogen is not needed

*\*Post cure settings will vary based off of the printer that is used*



ACCURATE, RELIABLE, AND CONSISTENT

# Laboratory Resins

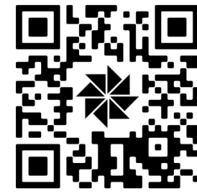


**IVORY**

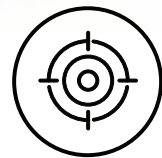
- #4220009 (1kg bottle)
- #4240009 (4kg bottle)

**LIGHT GREY**

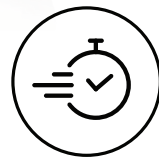
- #4220010 (1kg bottle)
- #4240010 (4kg bottle)



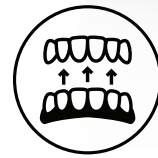
VIEW OUR KEYMODEL ULTRA VIDEO!



FLAWLESS SURFACE DETAIL



ULTRA-FAST TECHNOLOGY



THERMOFORMING RELEASE AGENT



TPO FREE

# KeyModel Ultra™

KeyModel Ultra is a material designed for 3D printing of dental and orthodontic models.

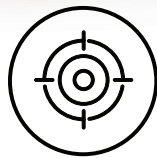
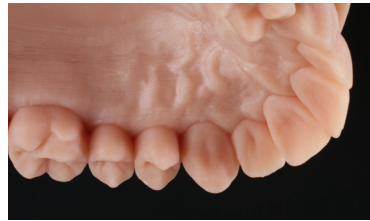


**FEATURES**

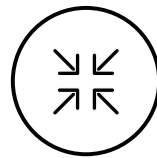
- HIGH-SPEED PRINT FORMULATION
- INTEGRATED RELEASE AGENT FOR EASY THERMOFORM SEPARATION
- TWO COLORS OPTIMIZED FOR SHARP DETAIL
- SMOOTH SURFACE FINISH
- STABILITY IN PRODUCTION WORKFLOW
- INTEGRATED WITH A WIDE RANGE OF 3D PRINTERS

PROPERTY	METHOD	KEYMODEL ULTRA
Maximum Tensile Strength	ASTM D638	50 MPa
Tensile Modulus	ASTM D638	1700 MPa
Elongation at Break	ASTM D638	5%
Maximum Flexural Strength	ASTM D790	70 MPa
Flexural Modulus	ASTM D790	1940 MPa
Viscosity @ 25°C	ASTM D7867	500-600 cP

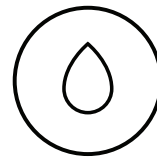
#4200006 (0.5kg bottle)  
 #4220006 (1kg bottle)



ACCURATE



LOW SHRINKAGE



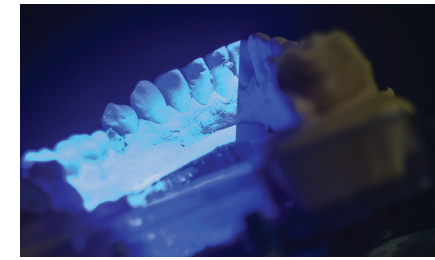
EASY VISIBILITY

# KeyModel<sup>®</sup>

KeyModel produces highly precise and accurate dental models. Its low shrinkage formulation makes it an ideal resin for crown, bridge, and implant models, orthodontic clear aligner models, and diagnostic modeling.

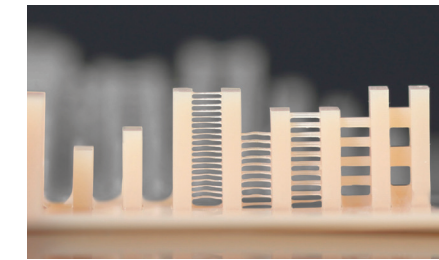
## FEATURES

- CARVABLE WITHOUT CHIPPING
- COLORED FOR EASY VISIBILITY OF MARGINS AND TOOTH ANATOMY



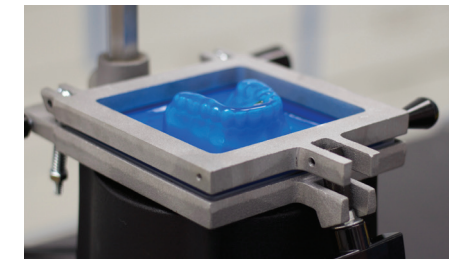
### OPTIMAL SCANNING

Models have smooth, hard surfaces for optimal scanning



### ACCURATE & PRECISE

Highly accurate detail in printing



### PAIRS WITH: PRO-FORM<sup>®</sup>

Check out our line of Pro-form thermoforming materials at [dental.keystoneindustries.com](http://dental.keystoneindustries.com)

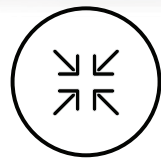
PROPERTY	METHOD	KEYMODEL
Flexural Strength	ASTM D790	79.6 MPa
Flexural Modulus	ASTM D790	2293 MPa
Tensile Strength	ASTM D638	51
Young's Modulus	ASTM D638	1850 MPa
Elongation at Break	ASTM D638	5.60%
Shore Hardness	Scale D	86

#4200003 (0.5kg bottle)

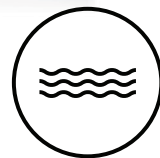
#4220003 (1kg bottle)



ACCURATE



LOW SHRINKAGE



HIGH-SPEED

# KeyOrthoModel<sup>®</sup>

KeyOrthoModel is designed for high-speed and accurate prints.

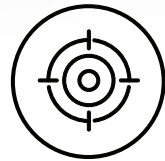


## FEATURES

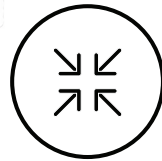
- OPTIMIZED TO PRINT @ 100 AND 200 $\mu$ m LAYER THICKNESS FOR HIGH THROUGHPUT
- PRINTS IN 1/2 THE TIME OF KEYMODEL AT SAME LAYER THICKNESS
- PAIRS WITH PRO-FORM<sup>®</sup>
- PERFECT FOR MAKING ALIGNERS
- WITHSTANDS THERMOFORMING TEMPERATURES

PROPERTY	METHOD	KEYORTHOMODEL
Flexural Strength	ASTM D790	79.6 MPa
Flexural Modulus	ASTM D790	2293 MPa
Tensile Strength	ASTM D638	51
Young's Modulus	ASTM D638	1850 MPa
Elongation at Break	ASTM D638	5.60%
Shore Hardness	Scale D	86

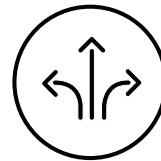
#4220002 (0.5kg bottle)



ACCURATE



LOW SHRINKAGE



FLEXIBLE



SIMULATES GUM TISSUE

# KeyMask<sup>®</sup>

Flexible yet firm gingival mask that simulates the look and feel of gum tissue. Incorporate KeyMask into your digital restoration planning.



**FLEXIBLE YET FIRM**  
This gingival mask simulates the look and feel of gum tissue

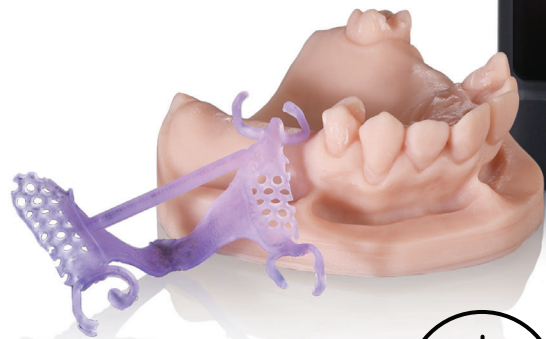


**EASILY TRIMMED**  
Creates a proper emergence profile for pontic shape

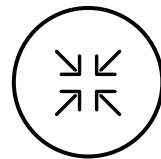
PROPERTY	METHOD	KEYMASK
Tensile Strength	ASTM D638	2 MPa
Young's Modulus	ASTM D638	4.6 MPa
Elongation at Break	ASTM D638	41%

“KeyCast prints well, with excellent detail needed for RPDs. It burnouts thoroughly and leaves no discernible residual ash. Once properly post-cured, it should slide into your existing equipment workflow for burnout and casting.” — **BY KEN KINCAID CDT,TE**

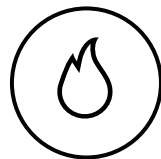
#4200000 (0.5kg bottle)  
#4220000 (1kg bottle)



**ACCURATE**



**LOW SHRINKAGE**



**ASH-FREE  
BURNOUT**

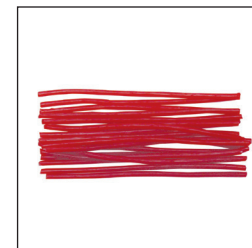


# KeyCast<sup>®</sup>

KeyCast’s low shrinkage formula controls thermal expansion to yield porous-free and accurate castings. KeyCast is compatible with rapid burnout and gradual temperature ramp workflows, with no residual ash. It is used with chrome, cobalt, gold, and silver.

PROPERTY	METHOD	KEYCAST
Flexural Strength	ASTM D790	15 MPa
Flexural Modulus	ASTM D790	340 MPa
Tensile Strength	ASTM D638	9.1 MPa
Young’s Modulus	ASTM D638	220 MPa
Elongation at Break	ASTM D638	16%
CTE 0-150 °C (32-302 °F)	ASTM E831	168 x 10 <sup>-6</sup> m/(m. °C)
CTE 150-250 °C (302-482 °F)	ASTM E831	64 x 10 <sup>-6</sup> m/(m. °C)
CTE >250 °C (>482 °F)	ASTM E831	<0m/(m. °C)
Shrinkage	ASTM D792	<2%
Burnout		<0.05%

## PAIRS PERFECTLY WITH:



Sprue Wax

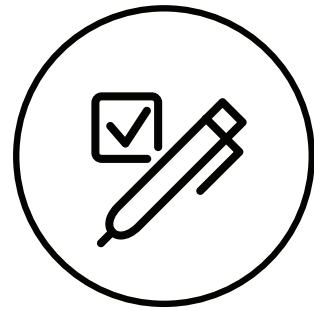


Microtorch



Green Flexiboles










Check out our full line of dental casting rings, waxes, mixing bowls and other accessories at [dental.keystoneindustries.com](http://dental.keystoneindustries.com).



# Accessories



# Finishing and Polishing Materials

ITEM NAME	ITEM NUMBER	PHOTO
<b>KeyPolish™ Kit</b>	#1009420	
<b>Mini Scotch Brite™</b>	#1670092	
<b>400 Grit Blue Disc</b>	#1670099	
<b>Course Grit Pumice*</b>	#1700010	
<b>Muslin Buffs</b>	#1180190 for 5" X 45 #1180170 for 4" X 42	
<b>Tripoli Polishing Compound</b>	#1660030	
<b>Beige Polishing Paste (100g)</b>	#1670175	
<b>High-Shine Cotton Buff</b>	#1670140 or #1670510	
<b>High-Shine Polistar Pink (150g)</b>	#1670546	

\* sold separately from kit



VIEW KEYSPLINT  
FINISHING AND POLISHING  
RECOMMENDATIONS



VIEW OUR  
POLISHING VIDEO



BEFORE POLISHING



AFTER POLISHING



**KEYPRINT COMPATIBLE**

Keystone provides high-quality materials, workflow efficiencies, and a commitment to open partnerships. We are committed to expanding our KeyPrint Compatible portfolio, providing an unmatched selection of printers and curing units to select from. Here's what it means to be KeyPrint Compatible:

- 16 UNIQUE RESINS
- 57 VALIDATED PRINTERS & COUNTING!
- 31 VALIDATED CURING UNITS
- 4,000+ PRINT WORKFLOWS VERIFIED
- 450+ PASSING BIOCOMPATIBILITY TESTS, INCLUDING 50 FOR THE KEYSPLINT FAMILY



[VIEW OUR LATEST PRINTER VALIDATIONS](#)

Keystone has validated the following workflows as KeyPrint Compatible with select resins. All of our resins are compatible across DLP / LCD / LED from 385-405nm.



## PRECISION 3D RESINS

 Keystone Industries  
52 West King St.  
Myerstown, PA 17067 USA  
1.800.333.3131  
keystoneindustries.com

### HEADQUARTERS

480 South Democrat Road,  
Gibbstown, NJ 08027 USA  
1.800.333.3131

### INTERNATIONAL

Stockholzstr. 11  
D-78224 Singen, Germany  
+49 77 31 91 21 01  
sales@keystoneind.com

### KEYPRINT.COM



JOIN OUR  
KEYPRINT  
COMMUNITY ON  
FACEBOOK!

FDA registered and ISO 13485 certified

For more information, please call 1.800.333.3131. To view a full list of our validated printers and post-cure units, please visit: [keyprint.com/compatible](https://keyprint.com/compatible)

REV 1 02/2025