## PRECISION 3D RESINS <br> KeyModel

## FEATURES OF KEYMODEL ${ }^{\text {Tw }}$

- Material produces highly-precise models with smooth, hard surfaces for optimal scanning
- Colored for easy visibility of margins and tooth anatomy
- Keystone's low-shrinkage formulation yields exacting models for crown, bridge or implant work
- Perfect for forming thermalplastics such as: splints, sport guards and bleaching trays
- Pairs perfectly with KeyMask ${ }^{\text {mw }}$
\# 4220006 - KeyModel ${ }^{\text {™ }}, 35.3$ oz (1 kg)


| PROPERTY | PROCEDURE | TESTING | KEYMODEL ${ }^{\text {m" }}$ |
| :--- | :---: | :---: | :---: |
| Tensile Strength (MPa) | ASTM D638-03 | Pull Force | 51.5 |
| Elongation at break \% | ASTM D638-05 | Pull Force | $5.60 \%$ |
| Young's Modulus (MPa) | ASTM D638-04 | Pull Force | 1853 |
| Flexural Strength (MPa) | ASTM D790 | Flex Force | 79.6 |
| Flexural Modulus (MPa) | ASTM D790 | Flex Force | 2293 |
| Flexural Strain \% (Max 10\%) | ASTM D790 | Flex Force | $7 \%$ |
| Tg (C) | DSC | Thermal Analysis | $50-60^{\circ} \mathrm{C}$ |
| Shore Hardness (D) | Scale D | Physical Analysis | 86 D |
| IZOD Impact (J/m) | ASTM D256 | Physical Analysis | 42.3 |

# PRECISION 3D RESINS <br> KeyOrthoModel 

## FEATURES OF KEYORTHOMODEL"M

- Designed for high-speed prints ( $150+\mu \mathrm{m}$ z-axis layers) that are highly-accurate, hard and strong
- Fast and accurate - can build at least $780 \mu \mathrm{~m}$ per minute printing @ 200 $\mu \mathrm{m}$ z-axis layers
- Perfect for thermoforming orthodontic devices
- Maintains stability when subjected to thermoforming temperatures.
\#4220003 KeyOrthoModel ${ }^{\text {™ }}$, 35.3 oz (1 kg)

| PROPERTY | PROCEDURE | TESTING | KEYORTHOMODEL $^{\text {m }}$ |
| :--- | :---: | :--- | :---: |
| Tensile Strength (MPa) | ASTM D638-03 | Pull Force | 51.5 |
| Elongation at break \% | ASTM D638-05 | Pull Force | $5.60 \%$ |
| Young's Modulus (MPa) | ASTM D638-04 | Pull Force | 1853 |
| Flexural Strength (MPa) | ASTM D790 | Flex Force | 79.6 |
| Flexural Modulus (MPa) | ASTM D790 | Flex Force | 2293 |
| Flexural Strain \% (Max 10\%) | ASTM D790 | Flex Force | $7 \%$ |
| Tg ( ${ }^{\circ}$ C) | DSC | Thermal Analysis | $50-60^{\circ} \mathrm{C}$ |
| Shore Hardness (D) | Scale D | Physical Analysis | 86 D |
| IZOD Impact (J/m) | ASTM D256 | Physical Analysis | 42.3 |

## PRECISION 3D RESINS <br> KeyCast ${ }{ }^{\prime}$

## FEATURES OF KEYCAST"

- For casting of crowns and partial dentures, this material produces a strong, porous-free 3D print that is resistant to fractures in even the finest of details
- It burns out easily using existing ovens and workflows, with no residual ash, yielding detailed frames and accurate crowns
\#4220000 KeyCastT", 35.3 oz (1 kg)

| PROPERTY | PROCEDURE | TESTING | KEYCAST ${ }^{\text {TM }}$ |
| :---: | :---: | :---: | :---: |
| Tensile Strength (MPa) | ASTM D638-03 | Pull Force | 16 |
| Elongation at break \% | ASTM D638-05 | Pull Force | 15.60\% |
| Young's Modulus (MPa) | ASTM D638-04 | Pull Force | 25 |
| Shore Hardness (D) | Scale D | Physical Analysis | 40 |
| Shrinkage | ASTM D792 | Dimensional Stability | <2\% |
| CTE 0-150 ${ }^{\circ} \mathrm{C}\left(32-302^{\circ} \mathrm{F}\right)$ | ASTM E831 | Thermal Analysis | $168 \times 10-6 \mathrm{~m} /\left(\mathrm{m} \cdot{ }^{\circ} \mathrm{C}\right)$ |
| CTE $150-250^{\circ} \mathrm{C}$ (302-482 $\left.{ }^{\circ} \mathrm{F}\right)$ | ASTM E831 | Thermal Analysis | $64 \times 10-6 \mathrm{~m} /\left(\mathrm{m} \cdot{ }^{\circ} \mathrm{C}\right)$ |
| CTE $>250^{\circ} \mathrm{C}\left(>482^{\circ} \mathrm{F}\right)$ | ASTM E831 | Thermal Analysis | $<0 \mathrm{~m} /\left(\mathrm{m} \cdot{ }^{\circ} \mathrm{C}\right)$ |

## PRECISION 3D RESINS KeyMask



# PRECISION 3D RESINS KeySplint Hard 

## FEATURES OF KEYSPLINTHARD"

- Biocompatible material for rigid splint devices
- The print is strong and clear for cases where tooth immobilization is the priority
\#4220004 KeySplint Hard ${ }^{\text {Tw }}$, 35.3 oz (1 kg)

Available now for sampling! Purchase availability coming soon.

FLEXURAL STRENGTH (MPA)


FLEXURAL MODULUS (MPA)



## PRECISION 3D RESINS <br> KeySplint Soft

## FEATURES OF

## KEYSPLINTSOFT ${ }^{\text {m }}$

- Biocompatible material for flexible splint devices
- Unique formulation balances flexibility and strength in the material
- The print is clear and polishable, with some flexibility and give
- Perfect for night guards and retainers \#4220005 KeySplint Soft ${ }^{\text {tm }}, 35.3$ oz (1 kg)

Available now for sampling!
Purchase availability coming soon.

| PROPERTY | PROCEDURE | TESTING | KEYSPLINT SOFT |
| :--- | :---: | :--- | :---: |
| Tensile Strength (MPa) | ASTM D638-03 | Pull Force | 43.7 |
| Elongation at break \% | ASTM D638-05 | Pull Force | $60 \%$ |
| Young's Modulus (MPa) | ASTM D638-04 | Pull Force | 1063 |
| Flexural Strength (MPa) | ASTM D790 | Flex Force | 39.6 |
| Flexural Modulus (MPa) | ASTM D790 | Flex Force | 863 |
| Flexural Strain \% (Max 10\%) | ASTM D790 | Flex Force | $10+\%$ |
| Tg (CC) | DSC | Thermal Analysis | $78^{\circ} \mathrm{C}$ |
| Shore Hardness (D) | Scale D | Physical Analysis | 82 D |
| IZOD Impact (J/m) | ASTM D256 | Physical Analysis | 83.9 |

