PioNext Photosensitive Resin

Light-Curing Dental Resin

Exquisite Molding **Fine Texture** **Strong Compatibility** **Color Customization**

//Multiple Applications//

orthodontics, restorations, surgical guides, casting, crowns, etc.

PioNext
Ortho Model Resin
PN-Model
Yellow
Photopolymer UV Resin
1 Liter
Shake Before Use

PN-SG

Viscosity	350 cps (@25℃)
Density	1.05~1.1g/cm3 (@25℃)
Hardness	D75
Flexural modulus	3100 MPa
Flexural strength	111 MPa
Tensile modulus	2800 MPa
Tensile strength	63 MPa
Elongation at break	4.5
Impact strength notched Izod	32 J/m
Heat deflection temperature	46 °C
Net weight	500g/1000g
Package size	190×100×100mm/290×110×110mm

Surgical Guide Resin

Application: Dental implant surgical guides and medical applications.

Package weight : 500 / 1000g

Low shrinkage

bio-compatibility

high transparency

high flexibility

cost-effective

high adaptability

smooth printed surface

good fluidity

high accuracy

Surgical Guide Resin
PN-SG

Features

High transparency: enable dentists effectively and accurately grasp the surgical site.

High toughness: assembly, drilling, not easy to brittle crack.

PN-TEMP

Viscosity	650 cps (@25℃)
Density	1.05~1.1g/cm3 (密度计 (25℃)
Hardness	D90
Flexural modulus	1200 MPa
Flexural strength	72 MPa
Tensile modulus	539 MPa
Tensile strength	52 MPa
Elongation at break	11
Impact strength notched Izod	81 J/m
Heat deflection temperature	87 °C
Net weight	500g/1000g
Package size	190×100×100mm/290×110×110mm

Temporary Restoration Resin

Application: Temporary crowns/stealth models, trial models in several dental and medical applications.

Package weight : 500 / 1000g

Low skin irritation
low skin hypersensitivity
low shrinkage rate
temperature resistance
strong hardness
cost-effective
surface scratch resistance
short curing time
high precision

Features

Low shrinkage rate: Can accurately print out the tooth mold size, with high model reduction degree.
Temperature resistance: Can withstand temperatures of 100°C.

PioNext
Temporary Restoration Resin
PN-Temp

Viscosity	100 cps (@25°C)
Density	1.05~1.1g/cm3 (@25°C)
Hardness	D82
Flexural modulus	1823 MPa
Flexural strength	52 MPa
Tensile modulus	649 MPa
Tensile strength	38 MPa
Elongation at break	6
Impact strength notched Izod	86 J/m
Heat deflection temperature	82 °C
Net weight	500g/1000g
Package size	190×100×100mm/290×110×110mm

Dental Casting Resin

Application: castable dental crown，skeleton and others dental and medical casting applications.

Package weight : 500 / 1000g

No ash residue
low shrinkage
high hardness
cost-effective
smooth surface
Good liquidity
high precision

PN-CAST

PioNext
Dental Casting Resin
PN-Cast

Features

Strong hardness: The casting resin can be worned before casting.
No ash residue: At high temperature, the ash residue is less than 0.5%, therefore makesthe casting more complete.

Viscosity	500 cps (@25°C)
Density	1.05~1.1g/cm3 (@25°C)
Hardness	D90
Flexural modulus	1480 MPa

PioNext
Ortho Model Resin
PN-Model

PN-Model

Features

Low shrinkage rate: Can accurately print out the tooth mold size, with high model reduction degree.
Temperature resistance: Can withstand temperature changes during the dental mold manufacturing.

Flexural strength	52 MPa
Tensile modulus	1000 MPa
Tensile strength	30 MPa
Elongation at break	3
Impact strength notched Izod	18 J/m
Heat deflection temperature	78 °C
Net weight	500g/1000g
Package size	190×100×100mm/290×110×110mm

Ortho Model Resin

Application: Invisible aligners, trial models, and others dental and medical applications.

Package weight : 500 / 1000g

- Low skin irritation
- low skin hypersensitivity
- low shrinkage rate
- temperature resistance
- strong hardness
- cost-effective
- surface scratch resistance
- short curing time
- high precision

Viscosity	350 cps (@25°C)
Density	1.05~1.1g/cm3 (@25°C)
Hardness	D86
Flexural modulus	1376 MPa
Flexural strength	87 MPa
Tensile modulus	720 MPa
Tensile strength	37 MPa
Elongation at break	6
Impact strength notched Izod	18 J/m
Heat deflection temperature	78 °C
Net weight	500g/1000g
Package size	190×100×100mm/290×110×110mm

Ortho Model 2.0 Resin

Application: Invisible aligners, trial models, and others dental and medical applications.

Package weight : 500 / 1000g

- Low shrinkage rate
- temperature resistance
- strong hardness
- cost-effective
- surface scratch resistance
- short curing time
- high precision

PN-Model 2.0

Features

Low shrinkage rate: Can accurately print out the tooth mold size, with high model reduction degree.
Cost effective :The most cost-effective dental model resin in the dental applications.

PioNext
Model Resin
PN-Model 2.0

PN-RD

Features

Low shrinkage rate: Can accurately print out the tooth mold size,with high model reduction degree.
Surface scratch resistance:
can support the surface damage caused by the try-on and plug-in process.

PioNext
Removable Die Model Resin
PN-RD

Viscosity	500 cps (@25°C)
Density	1.05~1.1g/cm3 (@25°C)
Hardness	D90
Flexural modulus	902 MPa
Flexural strength	66 MPa
Tensile modulus	505 MPa
Tensile strength	30 MPa
Elongation at break	8
Impact strength notched Izod	18 J/m
Heat deflection temperature	78 °C
Net weight	500g/1000g
Package size	190×100×100mm/290×110×110mm

Removable Die Model Resin

Application: Invisible aligners, trial models, and others dental and medical applications.

Package weight : 500 / 1000g

- Low skin irritation
- low skin hypersensitivity
- low shrinkage rate
- temperature resistance
- strong hardness
- cost-effective
- surface scratch resistance
- short curing time
- high precision

Gingiva Resin

Application: flexible gingival masks, and other detal models and medical applications.

Package weight : 1000g

- softness characteristics
- smooth surface
- low curing time
- good liquidity

PN-GM

Features

Low shrinkage rate: Can accurately print out the tooth mold size,with high model reduction degree.
softness characteristics:The physical property is similar to rubber

high accuracy

wide compatibility

Surface hardness	A30
Net weight	500g/1000g
Package size	190×100×100mm/290×110×110mm

PioNext
Gingiva resin
PN-GN

Viscosity	500 cps (@25℃)
Density	1.05~1.1g/cm³ (@25℃)
Hardness	D84
Flexural modulus	1100-1300 MPa
Flexural strength	55-70 MPa
Tensile modulus	450-600 MPa
Tensile strength	28-40 MPa
Elongation at break	8.1-12.0
Impact strength notched Izod	25-30J/m
Heat deflection temperature	70 ℃
Net weight	500g/1000g
Package size	190×100×100mm/290×110×110mm

Water-washable Dental Resin

Application: suitable for repair model printing, invisible correction thermoforming and other applications.

Package weight : 1000g

- Low skin irritation
- low skin hypersensitivity
- low shrinkage rate
- temperature resistance
- strong hardness
- cost-effective
- surface scratch resistance
- short curing time
- high precision

PN-WW

Features

Low shrinkage rate: Can accurately print out the tooth mold size,with high model reduction degree.

Temperature resistance: Can withstand temperature changes during the dental mold manufacturing.

RESIN 3D PRINTER
Used for 3D printing
Compatible LCD/DLP 3D printer

Application Fields

Splint

Dental Studying Model

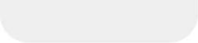
Denture

Temp Crown

Occlusional Model

Restoration Model

Casting Crown



Indirect Bonding Brackets

Surgical Guide

Wax-up Bracket

Gingival Mask

Wax-up Crown

Denture Base

Temp Tooth

Advantages of digital dental applications

High accuracy, high production efficiency and low cost

Traditional production process

subtractive manufaturing tchnology

1.Powder waste and noise polution
2.Many process and high cost
3.Long perior of time and low production eficiency
4.Depends on technician experience
5.Difficult to personalize
6.Inaccurate and can be affected by complex shapes

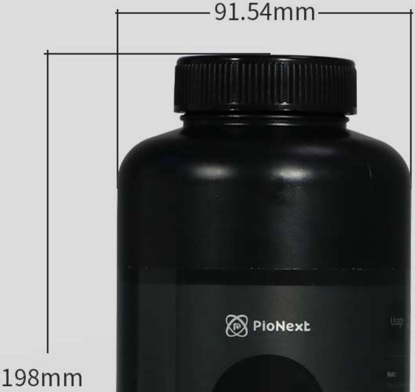
3D printing process

additive manufacturing technology

1.Safe and ecologic, easy to operate
2.Simple process and low cost
3.Short period of time and high production efficiency
4.Digital manufacturing, shortened technicians traning period
5.Able to achieve fast small batch production
6.Extremely accurate, unaffected by complex shapes

Packaging display

Note: The packaging is for reference only, there may be differences between different batches, and make the object as the standard.



No inner plug, coveniente opening

bottle thickned, difficult to be dent

Model Resin
PN-Model 2.0
Yellowish Brown
Photopolymer UV Resin
1 Liter
Shake Before Use
Opaque black
with full blackout

Material usage notice

post-processing and washing
Safety precautions
Correct storage method

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post-processing and washing

1. The print model should be cleaned with absolute ethanol/isoprpanol using low-frequency ultrasonic cleaner. Do not use high-frequency to cleaning or scrub the model too hard, in order to avoid to cause certain damage to the surface of the model.

2. Using an air gun or hair dryer to remove the cleaning fluid on the surface of the model.

3. It is recommended to remove the support for model before the post-cure treatment. After then, is recommended to remove rest of the detailed supports and do the surface treatment.

4. Adjust the curing time according to the selected post-curing mode.

Safety precautions

1. This product is for one-time use and cannot be reused.

2. Only use it under good ventilation,please pay attention to air circulation and take protective measures when using.

3. Eye Contact: Immediately flush with plenty of clean water. If you still feel unwell after washing, please seek medical attention immediately.

4. Skin Contact: Remove contaminated clothing and rinse contact area thoroughly with soap and water.

5. 3D resin is not approved for use with food, drink.If swallowed accidentally, do not induce vomiting, keep at rest and seek medical attention in time.

6. Disposal of waste should be in acoordance with local enviromental rugulations

Correct storage method

Please storage the product below to the 25 °C, avoid exposure to the light, general illumination visible light will initiate polymerization reaction.

Do not place it in the sun exposure, humid and corrosive gas presence place.

One year waranty