

# 技工所、椅旁 专用光敏树脂材料

SPECIAL PHOTOSENSITIVE RESIN MATERIALS FOR  
TECHNICIANS AND CHAIRS



**深圳市中创三维技术有限公司**

Shenzhen Zhongchuang 3D Technology Co., Ltd. (R&D)

**东莞市大集三维科技有限公司**

Dongguan Daji 3D Technology Co., Ltd. (Production Base)

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# Planting model photosensitive resin

## 种植模型光敏树脂

### 产品特点 Product features

- ✓ 高精度低收缩 High precision and low shrinkage
- ✓ 高硬度，高韧性 High hardness and toughness
- ✓ 弯曲强度高 High bending strength
- ✓ 细节再现好 Good detail reproduction

种植模型光敏树脂是一种高精度、超硬度及耐久性兼具的光固化材料，适用405nm波段的DLP和LCD设备，应用高复杂难度牙模生产，打印表面高平滑，无水波纹且产品耐久性强。

Planting model photosensitive resin is a highly refined, ultra hard, and durable light curing material suitable for DLP and LCD devices in the 405nm wavelength range. It is used in the production of highly complex and difficult dental molds, with a highly smooth printing surface, no water ripples, and long product durability.

颜色：橙黄色  
Color: Orange yellow

规格：1kg/瓶 5kg/瓶  
Specification: 1kg/bottle 5kg/bottle

适用设备：高精度DLP打印机和LCD打印机  
Applicable equipment: high-precision DLP printer and LCD printer

### 产品性能 Product performance

测试项	单位	数值	测试项	单位	数值
硬度 Hardness	Shore D	> 80	缺口冲击强度 Notch impact strength	Mpa	> 45
弯曲强度 Bending strength	Mpa	> 75	热变形温度 Hot deformation temperature	°C	> 90
断裂延长率 Breaking elongation rate	%	> 10	弯曲模量 Bending modulus	Mpa	> 2050

测试标准 Test standards : ASTM D638、ASTM D790、ASTM D256、ASTM D2204

# Repair model photosensitive resin

## 修复模型光敏树脂



### 产品特点 Product features

- ✓ 成型速度快 Fast forming speed
- ✓ 表面高硬度 High surface hardness
- ✓ 后处理时间短 Short post treatment time
- ✓ 性能稳定 Stable performance

修复模型光敏树脂是一种高精度、超硬度及耐久性兼具的光固化材料，适用405nm波段的DLP和LCD设备，应用复杂难度高的修复模型生产，打印表面细节体现好，产品稳定性好。

Repair model photosensitive resin is a highly refined, ultra hard, and durable photocurable material suitable for DLP and LCD devices in the 405nm wavelength range. It is produced using complex and difficult repair models, with good printing surface details and product stability.

- 颜色：橘黄色、灰色  
Colors: orange, gray
- 规格：1kg/瓶 5kg/瓶  
Specification: 1kg/bottle 5kg/bottle
- 适用设备：普通DLP打印机和LCD打印机  
Applicable equipment: regular DLP printer and LCD printer

### 产品性能 Product performance

测试项	单位	数值	测试项	单位	数值
硬度 Hardness	Shore D	> 80	缺口冲击强度 Notch impact strength	Mpa	> 45
弯曲强度 Bending strength	Mpa	> 65	热变形温度 Hot deformation temperature	°C	> 90
断裂延长率 Breaking elongation rate	%	> 10	弯曲模量 Bending modulus	Mpa	> 2150

测试标准 Test standards : ASTM D638、ASTM D790、ASTM D256、ASTM D2204



# Opposed jaw model photosensitive resin

## 对颌模型光敏树脂

### 产品特点 Product features

- ✓ 打印速度快 Fast printing speed
- ✓ 高韧性高强度 High toughness and strength
- ✓ 耐刮性强 Strong scratch resistance
- ✓ 性能相对稳定 Relatively stable performance

对颌模型光敏树脂是一种硬度高韧性好的的光固化材料，适用405nm波段的DLP和LCD设备，应用普通对颌模型生产，打印细节体现好且产品性能好。

The dental model photosensitive resin is a high hardness and toughness light cured material suitable for DLP and LCD devices in the 405nm band. It is produced using ordinary dental models, with good printing details and product performance.

颜色：深灰色、米黄色  
Color: dark gray, beige

规格：1kg/瓶 5kg/瓶  
Specification: 1kg/bottle 5kg/bottle

适用设备：普通DLP打印机和LCD打印机  
Applicable equipment: regular DLP printer and LCD printer

### 产品性能 Product performance

测试项	单位	数值	测试项	单位	数值
硬度 Hardness	Shore D	> 70	缺口冲击强度 Notch impact strength	Mpa	> 35
弯曲强度 Bending strength	Mpa	> 60	热变形温度 Hot deformation temperature	°C	> 65
断裂延长率 Breaking elongation rate	%	> 7	弯曲模量 Bending modulus	Mpa	> 1600

测试标准 Test standards : ASTM D638、ASTM D790、ASTM D256、ASTM D2204

# High temperature resistant orthodontic model photosensitive resin

## 耐高温正畸模型光敏树脂

### | 产品特点 Product features

- ✓ 耐高温 High temperature resistance
- ✓ 高流动性 High fluidity
- ✓ 兼容性强 Strong compatibility
- ✓ 性能稳定 Stable performance

耐高温正畸光敏树脂是一种耐高温、低粘度耐久性兼具的光固化材料，适用405nm波段的DLP和LCD设备，应用正畸矫治模型生产，打印效率高，产品精度稳定性好。

High temperature resistant orthodontic photosensitive resin is a UV curable material that combines high temperature resistance, low viscosity, and durability. It is suitable for DLP and LCD devices in the 405nm band, and is produced using orthodontic models with high printing efficiency and good product accuracy and stability.



- 颜色：白色、橘红色  
Color: white, orange red
- 规格：1kg/瓶 5kg/瓶  
Specification: 1kg/bottle 5kg/bottle
- 适用设备：普通DLP打印机和LCD打印机  
Applicable equipment: regular DLP printer and LCD printer

### | 产品性能 Product performance

测试项	单位	数值	测试项	单位	数值
硬度 Hardness	Shore D	> 75	缺口冲击强度 Notch impact strength	Mpa	> 15
弯曲强度 Bending strength	Mpa	> 85	热变形温度 Hot deformation temperature	°C	> 160
断裂延长率 Breaking elongation rate	%	> 15	弯曲模量 Bending modulus	Mpa	> 1700

测试标准 Test standards : ASTM D638、ASTM D790、ASTM D256、ASTM D2204

# Long term temporary dental bridge photosensitive resin

## 长效临时冠桥光敏树脂



### 产品特点 Product features

- ✓ **高耐磨高韧性** High wear resistance and toughness
- ✓ **易抛光** Easy polishing
- ✓ **兼容性强** Strong compatibility
- ✓ **机械性能稳定** Stable mechanical performance

长期临时牙桥光敏树脂是一种超高耐磨、高韧性、自然透明，生物兼容性兼具的光固化材料，适用405nm波段的DLP和LCD设备，应用单冠长桥的生产，打印效率高，产品机械稳定性高。

Long term temporary dental bridge photosensitive resin is an ultra high wear resistance, high toughness, natural transparency, and biocompatible light cured material, suitable for DLP and LCD devices in the 405nm band. It is used for the production of single crown long bridges, with high printing efficiency and high mechanical stability of the product.

颜色：A1 A2 A3 BL1  
Color:A1 A2 A3 BL

规格：1kg/瓶  
Specification: 1kg/bottle

适用设备：高精度DLP打印机和LCD打印机  
Applicable equipment: high-precision DLP printer and LCD printer

### 产品性能 Product performance

测试项	单位	数值	测试项	单位	数值
硬度 Hardness	Shore D	> 80	缺口冲击强度 Notch impact strength	Mpa	< 62
弯曲强度 Bending strength	Mpa	> 90	拉伸强度 Tensile strength	Mpa	< 58
断裂伸长率 Breaking elongation rate	%	> 17	弯曲模量 Bending modulus	Mpa	> 2600
吸水率 Water absorption rate	ug/mm <sup>3</sup>	< 60	测试标准 Test standards : ASTM D638、ASTM D790、ASTM D256、ASTM D2204		

# Active base photosensitive resin

## 活动基托光敏树脂

### | 产品特点 Product features

- ✓ 高耐磨 High wear resistance
- ✓ 吸水率低 Low water absorption
- ✓ 耐冲击强 Strong impact resistance
- ✓ 易抛光打磨 Easy to polish and polish



活动基托光敏树脂是一种不含MMA、耐冲击，无异味，不易变脆兼具的光固化材料，适用405nm波段的DLP和LCD设备，应用活动基托生产的，成型效率高，产品精度机械稳定性强。

Movable base photosensitive resin is a light curing material that does not contain MMA, is impact resistant, has no odor, and is not easily brittle. It is suitable for DLP and LCD equipment in the 405nm band, and is produced using movable base with high molding efficiency, strong product accuracy and mechanical stability.

- 颜色：半透，粉红色  
Color: semi transparent, pink
- 规格：1kg/瓶  
Specification: 1kg/bottle
- 适用设备：高精度DLP打印机和LCD打印机  
Applicable equipment: high-precision DLP printer and LCD printer

### | 产品性能 Product performance

测试项	单位	数值	测试项	单位	数值
硬度 Hardness	Shore D	> 75	缺口冲击强度 Notch impact strength	Mpa	55-65
弯曲强度 Bending strength	Mpa	> 100	拉伸强度 Tensile strength	Mpa	54-59
断裂延长率 Breaking elongation rate	%	> 16	弯曲模量 Bending modulus	Mpa	> 2400
吸水率 Water absorption rate	ug/mm <sup>3</sup>	< 55	测试标准 Test standards : ASTM D638、ASTM D790、ASTM D256、ASTM D2204		



# Functional trial crown bridge photosensitive resin

## 功能性试戴牙桥光敏树脂



### 产品特点 Product features

- ✓ 耐磨高韧性 Wear resistance and high toughness
- ✓ 吸水率低 Low water absorption
- ✓ 兼容性强 Strong compatibility
- ✓ 易抛光打磨 Easy to polish and polish

功能性试戴牙桥是一种高耐磨、高韧性、耐口腔环境腐蚀，吸水率低兼具的光固化材料，适用405nm波段的DLP和LCD设备，应用临时试戴咬合生产的，打印效率高好，产品精度稳定性好。

Functional trial wear dental bridge is a high wear resistance, high toughness, corrosion resistance to oral environment, low water absorption and UV curing material suitable for DLP and LCD devices in the 405nm band. It is produced by temporary trial wear bite, with high printing efficiency and good product accuracy and stability.

颜色：A2  
Color: A2

规格：1kg/瓶  
Specification: 1kg/bottle

适用设备：普通DLP打印机和LCD打印机  
Applicable equipment: regular DLP printer and LCD printer

### 产品性能 Product performance

测试项	单位	数值	测试项	单位	数值
硬度 Hardness	Shore D	> 70	缺口冲击强度 Notch impact strength	Mpa	45-56
弯曲强度 Bending strength	Mpa	> 80	拉伸强度 Tensile strength	Mpa	< 98
断裂延长率 Breaking elongation rate	%	> 10	弯曲模量 Bending modulus	Mpa	> 1800
吸水率 Water absorption rate	ug/mm <sup>3</sup>	< 80	测试标准 Test standards : ASTM D638、ASTM D790、ASTM D256、ASTM D2204		

# Personalized tray photosensitive resin

## 个性化托盘光敏树脂



### 产品特点 Product features

- ✓ **耐弯强度高** High bending strength
- ✓ **无MMA** No MMA
- ✓ **兼容性强** Strong compatibility
- ✓ **后处理方便** Convenient post-processing

个性化托盘光敏树脂是一种弯曲模量高，弯曲强度大兼具的生物兼容性好的光固化材料，适用405nm波段的DLP和LCD设备，应用个性化托盘，树脂托盘的生产，表面光泽度好无失真无异味。

Personalized tray photosensitive resin is a type of photocurable material with high bending modulus and high bending strength, which has good biocompatibility. It is suitable for DLP and LCD devices in the 405nm band. The production of personalized trays and resin trays has good surface glossiness, no distortion, and no odor.

颜色：蓝、绿色

Color: Blue, green

规格：1kg/瓶

Specification: 1kg/bottle

适用设备：普通DLP打印机和LCD打印机

Applicable equipment: regular DLP printer and LCD printer

### 产品性能 Product performance

测试项	单位	数值	测试项	单位	数值
硬度 Hardness	Shore D	> 78	缺口冲击强度 Notch impact strength	Mpa	22-25
弯曲强度 Bending strength	Mpa	> 88	拉伸强度 Tensile strength	Mpa	44-59
断裂延长率 Breaking elongation rate	%	> 15	弯曲模量 Bending modulus	Mpa	> 1800
吸水率 Water absorption rate	ug/mm <sup>3</sup>	< 90	测试标准 Test standards : ASTM D638、ASTM D790、ASTM D256、ASTM D2204		

# Biomimetic gingival photosensitive resin

## 仿生牙龈光敏树脂



### 产品特点 Product features

- ✓ 优越的弹性 Superior elasticity
- ✓ 尺寸长期不收缩 Long term non shrinkage size
- ✓ 兼容性强 Strong compatibility
- ✓ 储存时间长 Long storage time

仿生牙龈光敏树脂是一种高弹性、抗撕裂极佳、高稳定性兼具的兼容性好的光固化材料，适用405nm波段的光固化设备，应用人工牙龈材料生产，长期保持弹性以及高稳定性。

Biomimetic gingival photosensitive resin is a highly elastic, tear resistant, and highly stable photocurable material with good compatibility. It is suitable for DLP and LCD devices in the 405nm band and is produced using artificial gingival materials to maintain elasticity and high stability for a long time.

颜色：粉红色  
Color: Pink

规格：1kg/瓶  
Specification: 1kg/bottle

适用设备：普通DLP打印机和LCD打印机  
Applicable equipment: regular DLP printer and LCD printer

### 产品性能 Product performance

测试项	单位	数值	测试项	单位	数值
硬度 Hardness	Shore A	> 35	缺口冲击强度 Notch impact strength	Mpa	20.2-25.1
弯曲强度 Bending strength	Mpa	> 25	拉伸强度 Tensile strength	Mpa	54-59
断裂延长率 Breaking elongation rate	%	> 200	弯曲模量 Bending modulus	Mpa	> 1500

测试标准 Test standards : ASTM D638、ASTM D790、ASTM D256、ASTM D2204

# Planting guide plate photosensitive resin

## 种植导板光敏树脂



### 产品特点 Product features

- ✓ 机械性能好 Good mechanical performance
- ✓ 透明度高 Good transparency
- ✓ 材料兼容性强 Strong material compatibility
- ✓ 不含MMA，无味 No MMA, odorless

手术导板光敏树脂是一种高温和湿式消毒灭菌兼具的生物兼容性好的光固化材料，适用405nm波段的DLP和LCD设备，应用手术定位导板生产，具有高强度低吸水性易于抛光处理的精密定位器。

Surgical guide plate photosensitive resin is a biocompatible light curing material that combines high temperature and wet disinfection sterilization. It is suitable for DLP and LCD devices in the 405nm band and is produced using surgical positioning guide plates. It has a precision locator with high strength, low water absorption, and easy polishing treatment.

- 颜色：透明  
Color: Transparent
- 规格：1kg/瓶  
Specification: 1kg/bottle
- 适用设备：普通DLP打印机和LCD打印机  
Applicable equipment: regular DLP printer and LCD printer

### 产品性能 Product performance

测试项	单位	数值	测试项	单位	数值
硬度 Hardness	Shore D	50	缺口冲击强度 Notch impact strength	Mpa	45.2-52.1
弯曲强度 Bending strength	Mpa	> 65	拉伸强度 Tensile strength	Mpa	54-59
断裂延长率 Breaking elongation rate	%	> 10	弯曲模量 Bending modulus	Mpa	> 2500
吸水率 Water absorption rate	ug/mm <sup>3</sup>	< 55	测试标准 Test standards : ASTM D638、ASTM D790、ASTM D256、ASTM D2204		

# Orthodontic bracket photosensitive resin

## 正畸托槽光敏树脂



### 产品特点 Product features

- ✓ 机械性能好 Good mechanical performance
- ✓ 透明度好 Good transparency
- ✓ 材料兼容性强 Strong material compatibility
- ✓ 不含MMA，无味 No MMA, odorless

手术导板光敏树脂是一种硬度高、材料无味、定位精准兼具的生物兼容性好的光固化材料，适用405nm波段的光固化设备，应用矫治器矫正器生产，具有高强度高韧性低吸水率易于抛光处理的精密导板产品。

Surgical guide plate photosensitive resin is a high hardness, odorless material, and biocompatible photocurable material with precise positioning. It is suitable for DLP and LCD devices in the 405nm band and is produced using orthodontic appliances. It is a precision guide plate product with high strength, high toughness, low water absorption, and easy polishing treatment.

颜色：透明  
Color: Transparent

规格：1kg/瓶  
Specification: 1kg/bottle

适用设备：普通DLP打印机和LCD打印机  
Applicable equipment: regular DLP printer and LCD printer

### 产品性能 Product performance

测试项	单位	数值	测试项	单位	数值
硬度 Hardness	Shore D	65	缺口冲击强度 Notch impact strength	Mpa	35.2-46.1
弯曲强度 Bending strength	Mpa	> 70	拉伸强度 Tensile strength	Mpa	56-65
断裂延长率 Breaking elongation rate	%	> 12	弯曲模量 Bending modulus	Mpa	> 2800

测试标准 Test standards : ASTM D638、ASTM D790、ASTM D256、ASTM D2204

# Wax casting photosensitive resin

## 蜡型铸造光敏树脂



### 产品特点 Product features

- ✓ 铸造无残留 No residue in casting
- ✓ 体现精细细节 Reflecting fine details
- ✓ 兼容多种包埋料 Compatible with multiple embedded materials
- ✓ 铸造件精度稳定 Stable casting accuracy

蜡型铸造光敏树脂是一种低粘度、精度高、烧失无残渣兼具的光固化材料，适用405nm波段的DLP和LCD设备，应用牙冠牙桥支架精密铸件包埋铸造生产，具有细节还原度高无变形且稳定。

Wax casting photosensitive resin is a low viscosity, high precision, and residue free light curing material that is suitable for DLP and LCD devices in the 405nm wavelength range. It is used for precision casting production of dental crowns and bridge brackets, with high detail reduction, no deformation, and stability.

颜色：绿色  
Color: Green

规格：1kg/瓶  
Specification: 1kg/bottle

适用设备：高精度DLP打印机和LCD打印机  
Applicable equipment: high-precision DLP printer and LCD printer

### 产品性能 Product performance

测试项	单位	数值	测试项	单位	数值
硬度 Hardness	Shore D	70	燃烧温度 Combustion temperature	°C	> 600
弯曲强度 Bending strength	Mpa	> 70	优质储存时间 Hot deformation temperature	H	< 6
弯曲模量 Bending modulus	Mpa	> 1800			

测试标准 Test standards : ASTM D638、ASTM D790、ASTM D256、ASTM D2204

# COMPANY INTRODUCTION

## 公司介绍

深圳市中创三维技术有限公司成立于2019年，是一家超千平方场地的企业，从事3D打印光敏树脂研发、生产、销售为一体的高新企业。

Shenzhen Zhongchuang 3D Technology Co., Ltd. was established in 2019 and is a high-tech enterprise with over a thousand square meters of space, engaged in the research and development, production, and sales of 3D printing photosensitive resins.

2023年成立东莞分公司，负责只生产牙科行业光敏树脂材料，主要有牙模模型，导板树脂，正畸树脂，牙龈树脂，基托树脂，临时牙冠树脂等产品，同时公司拥有澳大利亚高校材料学科的海归人士两位，以及国内几大高校进行产学研合作，共同研发牙科新产品，为研发、生产、销售、售后奠定了良好的的基础。 公司本着诚信为本、服务至上，信誉的原则，致力于牙科行业提供整套数字化解决方案。

Established in 2023, Dongguan Branch is responsible for producing only photosensitive resin materials for the dental industry, mainly including dental mold models, guide resins, orthodontic resins, gingival resins, base resins, temporary crown resins, and other products. At the same time, the company has two returnees from Australian universities in the field of materials science, as well as several major domestic universities conducting industry university research cooperation to jointly develop new dental products for research and development, production, and sales The after-sales service has laid a good foundation. The company is committed to providing a complete set of digital solutions for the dental industry based on the principles of honesty, service first, and reputation.

