

Rubber Mold Resin

珠宝压胶模树脂

*Product Introduction 产品介绍

Rubber mold resin is a temperature-resistant UV curable resin for 3D printing. This resin has the characteristics of high dimensional stability and good high temperature resistance. It is suitable for the application requirements with certain temperature resistance as jewelry ring die-casting mother mold, small batch low-temperature molds, silicone mold, rubber mold, high-temperature resistant parts, industrial structural parts and so on. 珠宝压胶模树脂是一款耐受高温环境的光固化 3D 打印树脂，此树脂具有尺寸稳定性高、高温抵抗性好的特点，适用于珠宝戒指压铸母模、小批量低温模具、硅胶模、橡胶模、耐高温零部件、工业结构件等有一定耐温要求的应用场景。

*Resin Property 树脂特性:

Pre-cure 固化前(液态):

Measurement 测试项目	Test method 测试方法	Value 测试数值
Viscosity 粘度, cps (@25°C)	ASTM D 2196	600-800
Density 密度, g/cm ³ (@25°C)	ASTM D 792	1.05-1.15

Post-cure 固化后(固态)

Measurement 测试项目	Test method 测试方法	Value 测试数值
Hardness 硬度, Shore D	ASTM D 2240	85-89
Flexural modulus 弯曲模量, Mpa	ASTM D 790	2800-3400
Flexural strength 弯曲强度, Mpa	ASTM D 790	78-90
Tensile modulus 拉伸模量, Mpa	ASTM D 638	800-1000
Tensile strength 拉伸强度, Mpa	ASTM D 638	40-50
Elongation at break 断裂伸长率, %	ASTM D 638	8-12
Impact strength, notched Izod, J/m 缺口冲击强度	ASTM D 256	20-30
Heat deflection temperature, °C 热变形温度	ASTM D648 @66PSI	170-250

*Parameter Suggestion 参数建议:

Equipment 设备名称	Layer Height 层厚 (mm)	Bottom Exposure Time 底层曝 光时间 (s)	Bottom Layer Count 底层数 (layers)	Exposure Time 一般层 曝光时 间 (s)	Lifting Distance 抬升高 度 (mm)	Light-off Delay 灭灯延 时 (s)	Lift speed 电机速 度 (mm/min)
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Piocreat DJ-68	0.05	20-60	3-5	2.9	5	1-2	60-300
Piocreat DJ-89Plus	0.05	20-60	3-5	3.0	8-10	1-2	60-300
Piocreat D158	0.05	10-40	2-3	2.1	5-7	1-2	60-300

***Post-Processing Procedure and Note 后处理与清洗:**

1. The print model should be cleaned with absolute ethanol/isopropanol and can be cleaned with a low-frequency ultrasonic cleaner. If high-frequency and high-power ultrasonic cleaning is used for the model, it may cause certain damage to the surface of the model; 将模型利用无水乙醇或异丙醇超声波震荡机清洗, 切勿以高频震荡或用力刷洗模型以免模型表面细节遭受破坏。
2. Thoroughly blow the model dry with a hair dryer or the like; 用气枪或吹风机移除表面清洗液。
3. It is recommended to remove the support for model with supports first, and then post-cure treatment. If you remove the supports after it's been post-cured, it will easily cause damage to the contact surface of the support point; 后固化前先移除大部分支撑, 待后固化完成后进行细节支撑移除与表面修饰处理。
4. For some occasions where certain toughness is required, you can choose to cure with UV lamp for 5 minutes. The printed parts should be kept in a cool dry place. 根据选用的后固化调整对应的后固化时间。

***Safety Precautions 安全注意事项:**

1. Eye Contact: Immediately flush with plenty of clean water (under eye lids) for at least 20 minutes. Hold eyelids apart to ensure flushing. Washing within one minute of contact is essential to achieve maximum effectiveness. Seek medical attention immediately. 如眼睛不慎接触到树脂, 请立即用清水清洗, 清洗后如仍感觉不适请立即就医。
2. Skin Contact: Remove contaminated clothing and rinse contact area thoroughly with soap and water. 如不慎接触到衣物请立即更换以肥皂与清水立即清洗皮肤与衣物。
3. 3D resin is not approved for use with food, drink, or medical application on the human body. 请勿将树脂与食品接触。
4. For additional information please see the Material Safety Data Sheet. 详情请参考物质安全数据表。

***Storage and Use 储存与使用:**

1. Below 25 °C cold storage for 18 months, sensitive to visible light, general illumination visible light will initiate polymerization reaction. 树脂应在 25 °C 条件下避光储存, 对可见光敏感, 容易引发聚合反应, 保质期 18 个月。
2. It is recommended to shake well before using and print at a temperature of 18-35°C. 建议使用前摇匀树脂, 在环境温度 18-35°C 下进行打印。