

16K Water Washable Resin

16K 水洗树脂

*Product Introduction 产品介绍

The 16k water-washable resin is a low-viscosity resin that is easy to clean and use. It has the characteristics of high precision, low shrinkage and fast curing. The surface of its printed parts has low gloss and smooth texture, and it is widely adaptable to desktop light-curing printing equipment. 16K 水洗树脂是一款低粘度的容易清洗容易使用的树脂，具有高精度、低收缩、快速固化的特性，其打印件表面具有低光泽度和光滑的质感，对桌面级光固化打印设备有广泛的适应性。

*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	200-350
Density 密度, g/cm ³ (@25°C)	ASTM D 792	1.09-1.12

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	82-86
Flexural modulus 弯曲模量, Mpa	ASTM D 790	1200-1630
Flexural strength 弯曲强度, Mpa	ASTM D 790	59-87
Tensile modulus 拉伸模量, Mpa	ASTM D 638	550-690
Tensile strength 拉伸强度, Mpa	ASTM D 638	34-46
Elongation at break 断裂延长率, %	ASTM D 638	6.7-8.0
Impact strength, notched Izod, J/m 缺口冲击强度	ASTM D 256	25-30
Heat deflection temperature, °C 热变形温度	ASTM D648 @66PSI	55-65

*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 Halot X1	0.05	40-70	3-5	1.2-1.6	8-10	3-6	180-600
Piocreat C01	0.05	40-70	3-5	2.2-2.7	8-10	1-2	180-480
Piocreat D136	0.05	40-70	3-5	2.0-2.5	8-10	1-2	180-480
Creality Halot R6	0.05	30-70	3-5	2.0-2.5	5	1-2	180-300
Creality Halot Sky	0.05	40-70	3-5	2.2-2.7	8-10	1-2	180-480
Creality Halot Mage S	0.05	40-70	3-5	2.2-2.7	8-10	1-2	180-480
Anycubic Photon Mono M5s	0.05	40-70	3-5	2.2-2.7	8-10	1-2	180-480
Anycubic M7 Pro	0.05	40-70	3-5	2.0-2.5	8-10	1-2	180-480
Anycubic DLP D2	0.05	30-70	3-5	2.8-3.3	5	1-2	180-300
Elegoo Saturn 3 Ultra	0.05	40-70	3-5	2.2-2.7	8-10	1-2	180-480
Elegoo Saturn 4 Ultra	0.05	40-70	3-5	2.2-2.7	8-10	1-2	180-480
Phrozen Sonic mini 8K S	0.05	40-70	3-5	2.5-3.0	8-10	1-2	180-480
Phrozen Sonic Mighty Revo	0.05	40-70	3-5	3.2-3.7	8-10	1-2	180-480
Phrozen Sonic Mega 8K S	0.05	40-70	3-5	2.1-2.6	8-10	1-2	180-480

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

1. Soak the model in water, then use a brush to scrub it several times until there is no resin residue on the surface, or it can be cleaned with a low-frequency ultrasonic cleaner. 将模型泡入水中，再使用毛刷多次刷洗，或者用低频超声波清洗机清洗，直到表面无树脂残留。
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. Post-curing time is 2-10 minutes, and the corresponding post-curing time should be adjusted according to different post-curing equipment. The printed parts should be kept in a cool dry place.

后固化时间 2-10 分钟，根据不同的后固化设备调整对应的后固化时间。打印件应存放在阴凉干燥处。

***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. Do not discharge cleaning water directly into the environmental system. 请勿将清洗后的水直接排入环境系统中。
5. 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。