

Crysta-8Q

TECHNICAL DATA SHEET

PRODUCT DESCRIPTION 产品介绍

Crysta-8Q is a clear SL resin which has accurate and durable features. It is designed for solid state SLA platforms. Crysta-8Q can be applied in master patterns, concept models, general parts and functional prototypes in the field of automotive, medical and consumer electronics industries. Crysta-8Q 是一种具备精确和耐久特性的完全透明的立体光造型树脂。它被用于固态激光的光固化成型法。Crysta-8Q 可应用于汽车，医疗，消费电子等工业领域的母模，概念模型，一般部件，功能性部件的制作。

TYPICAL FEATURES 典型特点

- Liquid resin's medium viscosity, so easy recoating, easy clean parts and machines 中等粘度的液态树脂，确保其更容易涂层以及清洗部件和机器
- Improved strength retention, improved dimensions retention of parts in humid condition 在潮湿环境中具有更好的强度及尺寸保持特性
- Good green strength, so need minimal part finishing 极佳的生坯强度，只需要极小的部件修饰
- EASY burning completely 容易烧尽
- Very few bubbles 极少气泡

TYPICAL BENEFITS 典型优点

- Superior clear, building parts with outstanding clarity and excellent accuracy 异常透明，可建造完全透明及精确的部件
- Need less part finishing time, easier post-curing 更少的部件完成时间
- Suitable for casting 适合铸造

Physical Properties – Liquid Material 液态材料的物理性能

Appearance 外观	Clear 透明
Density 密度	1.12g/cm ³ @ 25 °C
Viscosity 粘度	312~420cps @ 25 °C
Dp 固化深度	0.18 mm
Ec 临界曝光量	7.7 mJ/cm ²
Building layer thickness 建造层厚	0.1mm

Mechanical Properties of Post-Cured Material 固化后材料的机械性能

MEASUREMENT 测试项目	TEST METHOD 测试方法	VALUE 数值
		90-minute UV post-cure 90 分钟紫外固化
Hardness 硬度, Shore D	ASTM D 2240	83
Flexural modulus 弯曲模量, Mpa	ASTM D 790	2,670-2,870
Flexural strength 弯曲强度, Mpa	ASTM D 790	75- 84
Tensile modulus 拉伸模量, MPa	ASTM D 638	2,590-2,760
Tensile strength 拉伸强度, MPa	ASTM D 638	44-62
Elongation at break 断裂延长率	ASTM D 638	7-11%
Impact strength,notched Izod, J/m 缺口冲击强度	ASTM D 256	27- 38
Heat deflection temperature, °C 热变形温度	ASTM D 648 @66PSI	40~51
Glass transition,Tg 玻璃化转变温度, °C	DMA, E” peak	42~58
透光率, 5mm 厚度	GB/T 12010.8-2010	70-80%

注：Crysta-8Q使用及保存温度不宜过高，请在25摄氏度以下使用；使用及保存的相对湿度必须在38RH%以下。

The environment temperature for Crysta-8Q should not be too high. Please use it below 25 degrees Celsius.

The environment humidity for Crysta-8Q should be below 38RH%.