

U-Cure 9273

低粘度二官能环氧丙烯酸酯

Low Viscosity Difunctional Epoxy Acrylate

KASTER

Innovation in Polymer Chemistry
昆山卡斯特高分子材料有限公司

技术资料表 Technical Data Sheet (TDS)

1 产品介绍 Product Introduction

U-Cure 9273 是一款低粘度二官能环氧丙烯酸酯 UV 树脂。该产品旨在平衡高反应活性与稀释能力，特别优化了在 LED 光源下的固化表现，并有效克服了常规环氧丙烯酸酯脆性较大的缺点。

U-Cure 9273 is a low viscosity difunctional epoxy acrylate UV resin. It is designed to balance high reactivity with dilution capability, specifically optimized for LED curing, while effectively overcoming the inherent brittleness of conventional epoxy acrylates.

2 核心特性 Key Product Features

• LED 固化速度快 (Fast LED Curing)

在长波长 LED 光源下具有极高的感光活性，提升生产效率。

Exceptional photo-sensitivity under long-wavelength LED light sources, enhancing production efficiency.

• 低粘度 (Low Viscosity)

优异的流动性，能够作为活性稀释组分调节配方粘度。

Excellent flowability, serving as an active diluent to adjust formulation viscosity.

• 柔韧性好 (Good Flexibility)

相比标准环氧丙烯酸酯，具有更优的抗冲击与弯折性能。

Improved impact resistance and bending performance compared to standard epoxy acrylates.

3 物理及力学特性 Physical Properties

性能参数 Properties	典型指标 Typical Value	测试标准 Standard
外观 Appearance	透明澄清液体 / Clear Liquid	Visual
色数 Color (Gardner)	≤ 1	ASTM D1544
粘度 Viscosity (cps @ 25°C)	2,000 - 4,000	ASTM D2196
官能度 Functionality	2	Theoretical
固含量 Solid Content (%)	100%	GB/T 1725
酸值 Acid Value (mg KOH/g)	≤ 3	ASTM D974

4 建议应用 Product Applications

• UV 喷墨 (UV Inkjet)

极低的粘度使其非常适合作为喷墨配方的主体或添加成分，确保喷头的流畅性。

Ultra-low viscosity makes it ideal as a major component or additive in inkjet formulations, ensuring smooth nozzle performance.

- **UV 油墨 (UV Inks)**
用于胶印或丝印油墨，提供快速固化及良好的附着力。
Used in offset or screen printing inks to provide fast curing and good adhesion.
- **UV 涂料 (UV Coatings)**
适用于各类塑胶、木器及金属表面的工业涂料。
Suitable for industrial coatings on various plastic, wood, and metal surfaces.

5 常见问题解答 Q&A

Q: 为什么选择 U-Cure 9273 用于 LED 体系? (Why choose U-Cure 9273 for LED systems?)

A: 该树脂经过分子结构优化，能在 365nm-405nm 窄波段光源下快速反应，减少表面发粘现象。
The molecular structure is optimized to react rapidly under 365nm-405nm narrow-band light sources, reducing surface tackiness.

6 储存与安全 Storage and Safety

- **储存 (Storage):** 存放在密封容器中，置于 -10°C 至 35°C 的阴暗环境中。保质期至少 12 个月。
Store in sealed containers in a dark environment between -10°C and 35°C. Shelf life is at least 12 months.
- **包装 (Packaging):** 标准包装为 200kg / 铁桶。
Standard packaging is 200kg / steel drum.
- **安全 (Safety):** 本品对眼睛有刺激性且对水生生物有毒。使用前请仔细阅读安全数据表 (SDS)。
Irritating to eyes and toxic to aquatic organisms. Please read the Safety Data Sheet (SDS) carefully before use.

联系方式 Contact Information

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