U-Cure 9337

六官能聚氨酯丙烯酸酯 / Hexafunctional Urethane Acrylate

High Performance UV-Curable Resin

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 9337 是一款高性能的六官能团聚氨酯丙烯酸酯树脂。该产品专为追求高固化速度、极端表面硬度及优异耐物理磨损的应用而设计。其分子结构确保了在光固化过程中表现出卓越的反应活性及固化后膜层的尺寸稳定性。

U-Cure 9337 is a high-performance hexafunctional urethane acrylate resin designed for applications requiring high curing speed, extreme surface hardness, and excellent abrasion resistance. Its molecular structure ensures superior reactivity during UV curing and dimensional stability of the cured film.

2　物理及力学特性 Physical & Mechanical 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
粘度 Viscosity (cps @ 60°C)	500 - 1,000	ASTM D2196
固含量 Solid Content (%)	100%	GB/T 1725
官能度 Functionality	6	Theoretical
NCO 残存 NCO Content (%)	≤ 0.1%	Titration

3　核心特性 Key Product Features

- **高固化活性 (High Reactivity)**
  极高的感光速度，显著提升生产线效能。
  Extremely high photosensitivity, significantly improving production efficiency.
- **优异的硬度与耐刮性 (Surface Hardness & Scratch Resistance)**
  具有极佳的耐钢丝绒擦拭性能，提供坚硬的保护表面。
  Excellent steel wool resistance, providing a robust protective surface.
- **耐黄变性 (Yellowing Resistance)**
  固化膜层清澈透明，长期保持色泽稳定。
  The cured film remains clear and transparent with long-term color stability.

4　建议应用 Product Applications

- **光学薄膜涂料 (Optical Film Coatings)**
  手机、显示器等精密电子设备的表面处理。
  Surface treatment for precision electronic devices such as mobile phones and displays.

- **真空电镀面漆 (Vacuum Metallization Topcoats)**
  提供卓越的附着力及表面硬度。
  Provides exceptional adhesion and surface hardness for vacuum plating.

- **塑胶硬质涂料 (Plastic Hard Coatings)**
  增强 *ABS*、*PC* 等底材的耐磨抗刮性能。
  Enhances the abrasion and scratch resistance of substrates like ABS and PC.

5 常见问题解答 Q&A

Q: 冬季温度较低时，产品出现浑浊或结晶现象该如何处理？ (What to do if the product crystallizes in low winter temperatures?)

A: 由于 *U-Cure 9337* 纯度较高，在低温环境下可能会出现结晶现象。这属于正常的物理变化。使用前，请将其在 **50-80°C** 条件下加热，待结晶完全消失并恢复至透明液体后，搅拌均匀即可。
Due to high purity, crystallization may occur at low temperatures. This is a reversible physical change. Please heat at 50-80°C until fully clear before use.

6 储存与安全 Storage and Safety

- **储存 (Storage)***:* 建议密封存放于 *-10°C* 至 *35°C* 的阴暗干燥环境。保质期为 *12* 个月。
  Store in sealed containers in a dark, dry environment between -10°C and 35°C. Shelf life is 12 months.

- **安全 (Safety)***:* 本品对眼睛有刺激性。操作时请佩戴个人防护装备，详见 *SDS*。
  Irritating to eyes. Wear personal protective equipment. Refer to SDS for details.

联系方式 Contact Information

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