

U-Cure 9357

六官能团聚氨酯丙烯酸酯树脂

Hexafunctional Urethane Acrylate 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 9357是一款高性能的六官能团聚氨酯丙烯酸酯树脂。其设计旨在提供极高的反应活性和卓越的表面性能，特别适用于对硬度和耐磨性有严格要求的工业涂装领域。其独特的分子结构使其在低紫外线能量环境下仍能保持极高的固化效率与彻底性。

U-Cure 9357 is a high-performance hexa-functional polyurethane acrylate resin designed to provide high reactivity and excellent surface properties. Its unique molecular structure enables high curing efficiency and thoroughness even under low-energy UV environments.

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 (mPa·s @ 60°C)	1,200 - 2,000	ASTM D2196
固含量 Solid Content (%)	100%	GB/T 1725
官能度 Functionality	6	Theoretical
NCO 残存 NCO Content (%)	< 0.2%	Titration
色数 Color (Gardner)	< 1	ASTM D1544

3 核心特性 Key Product Features

- 极速固化与高感度 (Ultra-Fast Curing & High Sensitivity)**
六官能团结构提供了极高的双键密度，即使在较低的紫外线剂量下也能实现瞬间交联。
The hexa-functional structure provides high double-bond density for instantaneous cross-linking.
- 卓越硬度与耐磨性 (Excellent Hardness & Wear Resistance)**
固化膜具有极高的表面硬度和优异的抗刮伤性能。
The cured film provides high surface hardness and outstanding scratch resistance.
- 优异的流平性 (Superior Leveling)**
极佳的流动性确保涂层表面平整、高光泽。
Excellent flow properties ensure a smooth and high-gloss coating surface.

4 建议应用 Product Applications

- UV 木器涂料 (UV Wood Coatings)**
用于地板、家具等需要极高硬度与耐磨性的木制品涂装。
Used for wood products such as flooring and furniture requiring superior hardness.

- **UV 塑胶硬质涂层 (UV Plastic Hard Coatings)**

适用于手机、笔记本电脑等电子产品外壳的表面保护。

Suitable for surface protection of electronic housings like mobile phones and laptops.

- **UV 油墨 (UV Inks)**

作为高性能油墨的基础树脂，提升印刷品的耐化学性和耐磨性。

Used as a base resin for high-performance inks to improve resistance properties.

5 常见问题解答 Q&A

Q: 该树脂在低能量条件下如何保证固化彻底性? (How to ensure curing under low-energy?)

A: U-Cure 9357具有极高的感度。其高官能度结构在触发后会迅速形成致密的网状交联，实现表干与深层固化的同步完成。

Its high-functionality structure forms a dense network rapidly, achieving simultaneous surface and deep curing.

6 储存与安全 Storage and Safety

- **储存 (Storage):** 存放于密封容器中，置于 -10°C 至 35°C 的阴暗干燥环境。保质期12个月。

Store in sealed containers in a dark, dry environment at -10°C to 35°C . Shelf life is 12 months.

- **安全 (Safety):** 本品对眼睛有刺激性，对水生生物有毒。操作请佩戴个人防护装备，详见 SDS。

Irritating to eyes and toxic to aquatic life. Wear personal protective equipment. Refer to SDS.

联系方式 Contact Information

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