

U-Cure 9328

六官能聚氨酯丙烯酸酯树脂

Hexafunctional Urethane Acrylate Oligomer

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 9328 是一款旨在平衡极致加工性与物理强度的六官能聚氨酯丙烯酸酯树脂。其分子结构经特殊设计，能够提供极佳的固化速度，是高性能 UV 涂料的核心组分。

U-Cure 9328 is a hexafunctional urethane acrylate oligomer designed to balance extreme processability with physical strength. Its molecular structure provides excellent curing speed, making it a core component for high-performance UV coatings.

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)	50 - 250	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

• 低粘度与高流平 (Low Viscosity & High Leveling)

具有显著的低粘度特性，显著降低配方中活性稀释剂的需求，同时提供优异的流平性能。

Features significant low viscosity, reducing the need for active diluents while providing excellent leveling properties.

• 高硬度与卓越耐磨 (High Hardness & Superior Abrasion Resistance)

固化膜具有极高的硬度和致密的交联密度，表现出卓越的抗刮伤性能及耐钢丝绒测试性能。

The cured film offers high hardness and dense cross-linking density, demonstrating superior scratch resistance and steel wool durability.

• 极速固化与耐黄变 (Fast Curing & Yellowing Resistance)

极高的感光活性确保了极快的生产线速度，且长期使用仍保持优异的色彩稳定性。

High photo-reactivity ensures rapid line speeds, while maintaining excellent color stability over long-term use.

4 建议应用 Product Applications

- **塑胶硬质涂料 (Plastic Hard Coatings)**

作为高性能主树脂，为手机、家电及汽车内饰等塑胶件提供卓越的硬度与抗刮性能。

As a high-performance primary resin, providing superior hardness and scratch resistance for plastic parts in mobile phones, appliances, and automotive interiors.

- **光学薄膜涂料 (Optical Film Coatings)**

特别适用于对硬度和透明度有严苛要求的精密光学膜，如扩散片或增亮膜的涂层。

Specially suited for precision optical films requiring stringent hardness and transparency, such as coatings for diffuser or brightness enhancement films.

5 常见问题解答 Q&A

Q: 如何利用其低粘度优势优化配方？ (How to optimize formulas using its low viscosity?)

A: U-Cure 9328 可作为主树脂直接应用于 100% 固含量的配方中，能在不牺牲硬度的前提下大幅减少溶剂或稀释剂的使用。

U-Cure 9328 can be used as a primary resin in 100% solid formulations, significantly reducing solvent or diluent use without sacrificing hardness.

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。保质期为 12 个月。
Store in sealed containers in a dark environment between -10°C and 35°C. Shelf life is 12 months.
- **包装 (Packaging):** 标准包装为 200kg/桶。
Standard packaging is 200kg per drum.
- **安全 (Safety):** 对眼睛有刺激性。操作前请详细查阅安全数据表 (SDS)。
Irritating to eyes. Please refer to the Safety Data Sheet (SDS) before handling.

联系方式 Contact Information

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