

U-Cure 9575

二官聚氨酯丙烯酸酯 / Difunctional Polyurethane Acrylate

高性能 UA 树脂，具有极佳的附着力与湿热稳定性 / High-performance UA resin with superior adhesion and damp-heat stability

技术资料表 Technical Data Sheet (TDS)

1 产品介绍 Product Introduction

U-Cure 9575 是一款高性能的二官能聚氨酯丙烯酸酯 (UA) UV 树脂。该产品专门设计用于需要极高附着力和长期湿热环境可靠性的应用场景。其分子结构赋予了涂层卓越的耐化学性与物理性能保持率。

U-Cure 9575 is a high-performance difunctional polyurethane acrylate (UA) UV resin, specifically designed for applications requiring superior adhesion and long-term reliability in humid and hot 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 (cps @ 60°C)	15,000 – 50,000	ASTM D2196
固含量 Solid Content (%)	100%	GB/T 1725
官能度 Functionality	2	Theoretical
NCO 残存 NCO Content (%)	< 0.2%	—
绍氏硬度 Shore Hardness	84A	ASTM D2240
拉伸强度 Tensile Strength	10 MPa	ASTM D638
断裂伸长率 Elongation	280%	ASTM D638

3 核心特性 Key Product Features

- 优异的附着力 (Excellent Adhesion)**
在金属、塑料等多种难附着基材上具有良好的结合力。
Provides superior bonding strength on challenging substrates such as metals and plastics.
- 湿热性能保持性 (Reliable Retention in Damp Heat)**
在高温高湿循环测试中表现出极佳的性能稳定性。
Shows excellent performance stability in high temperature and humidity cycle tests.
- 出色的耐水性 (Outstanding Water Resistance)**
固化膜层在水浸环境下保持物理强度的完整性。
The cured film maintains physical strength integrity even under water immersion.

4 建议应用 Product Applications

- **UV 油墨 (UV Inks)**

提供墨层优异的柔韧性和附着力。

Provides excellent flexibility and adhesion for ink layers.

- **UV 胶粘剂 (UV Adhesives)**

提供极佳的初粘力和长期环境稳定性。

Provides excellent initial tack and long-term environmental stability.

5 常见问题解答 Q&A

Q: 该产品在湿热环境下的具体表现如何? (Performance in damp heat?)

A: U-Cure 9575 优化了交联密度与柔韧性的平衡, 在双 85 测试后仍能保持极高的附着力。

U-Cure 9575 maintains high adhesion levels even after 85°C/85% RH testing.

6 储存与安全 Storage and Safety

- **储存 (Storage):** 密封避光存放于 -10 ~ 35°C 环境。保质期至少 12 个月。

Store in sealed containers at -10 to 35°C. Shelf life is at least 12 months.

- **安全 (Safety):** 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。

Irritating to eyes and toxic to aquatic life. Wear PPE and refer to SDS.

联系方式 Contact Information

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