U-Cure 9313B

硅氟丙烯酯树脂 / Silicone Fluorine Acrylate Resin

High Performance Surface Modification Resin for Clear Coatings

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 9313B 是一款高性能的硅氟丙烯酯树脂。该产品巧妙结合了有机硅的滑爽感与氟素的极低表面能特性，具有高透光率，特别适用于 *UV* 高光清漆体系。其设计旨在为涂层提供卓越的表面物理性能、抗污能力以及极佳的视觉透明度。

U-Cure 9313B is a high-performance silicone-fluorine acrylate resin. Combining the smoothness of silicone with the low surface energy of fluorine, it features high light transmittance and is specifically suitable for UV clear coating systems, providing excellent surface properties and anti-stain performance.

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)	700 - 1,500	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)	$\leq$ 1	ASTM D1544

3　核心特性 Key Product Features

- **高透明度 (High Transparency)**
  极佳的相容性与透光率，固化后成膜清晰，不影响基材底色。
  Excellent compatibility and light transmittance, ensuring a clear film after curing.
- **极易清洁与抗污 (Easy-to-Clean & Stain Resistance)**
  极低的表面能，耐记号笔测试，污渍易于擦除。
  Ultra-low surface energy, resistant to marker tests, and easy to wipe off stains.
- **优异手感 (Excellent Tactile Feel)**
  赋予涂层表面极为爽滑、丝绸般的细腻触感。
  Provides a smooth, silky, and delicate touch to the coating surface.

4　建议应用 Product Applications

- **高光 UV 清漆 (High-Gloss UV Clearcoats)**
  应用于手机、电脑等电子消费品表面，提升亮度和抗刮伤性。
  Used in consumer electronics to enhance gloss and scratch resistance.

- **UV 手感涂料 (UV Soft-Touch Coatings)**
  在保持高透光要求的前提下，提供爽滑肤感。
  Provides a smooth skin-like feel while maintaining high transparency requirements.

5 常见问题解答 Q&A

Q: U-Cure 9313B 与 U-Cure 9313 在应用上有何区别？ (What is the difference between 9313B and 9313?)

A: *9313B* 经过优化，具有更高的透明度和相容性，更适合于清漆体系；而 *9313* 则更推荐用于哑光体系。两者在手感上相似，但 *9313B* 在清漆中表现出更好的成膜光泽度和澄清度。
9313B is optimized for higher transparency and compatibility, making it ideal for clear coating systems, whereas 9313 is recommended for matte systems.

6 储存与安全 Storage and Safety

- **储存 (Storage)**: 存放在密封容器中，避光保存。储存温度建议在 *-10°C* 至 *35°C*。保质期 *12* 个月。
  Store in sealed containers away from light. Recommended temperature: -10°C to 35°C. Shelf life: 12 months.
- **安全 (Safety)**: 对眼睛有刺激性。操作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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