

U-Cure 9562

二官能团聚氨酯丙烯酸酯

Difunctional Polyurethane Acrylate

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 9562 是一款高性能的二官能团聚氨酯丙烯酸酯树脂。其分子结构经特殊设计，旨在平衡高流平性与优异的机械韧性。作为核心成膜物质，它能显著提升涂膜的表面平整度与硬度，赋予涂层卓越的抗刮伤与耐磨性能，是高端光固化涂料与油墨配方的理想选择。

U-Cure 9562 is a high-performance difunctional polyurethane acrylate resin designed for balanced properties. It provides superior surface leveling and robust mechanical toughness, making it an ideal component for premium UV-curable coatings and inks.

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 @ 25°C)	25,000 - 35,000	ASTM D2196
固含量 Solid Content (%)	100%	GB/T 1725
官能度 Functionality	2	Theoretical
NCO 残存 (%)	< 0.2	Internal Method
邵氏硬度 Shore Hardness	88D	ASTM D2240
拉伸强度 Tensile Strength	72 MPa	ASTM D638
断裂伸长率 Elongation	7%	ASTM D638

3 核心特性 Key Product Features

• 优异的流平表现与表面控制 (Superior Leveling & Surface Control)

该树脂具有极佳的表面能控制能力，能显著降低体系表面张力，有效消除缩孔、针孔及橘皮现象，赋予涂层镜面级的平整度。

Provides exceptional surface energy control to eliminate craters and orange peel, delivering a mirror-like finish.

• 均衡的机械韧性与强度 (Balanced Toughness & Strength)

优化的聚氨酯骨架设计在提供良好韧性的同时保持了极高的涂膜硬度与拉伸强度，有效防止涂层在受力时碎裂。

Optimized backbone offers balanced toughness and high film hardness/tensile strength to prevent coating cracking.

• 卓越的耐磨损性 (Excellent Abrasion Resistance)

固化后形成的致密网络结构，显著提升了涂层的表面物理防护能力，长久保持高光泽美感。

Dense cross-linked network enhances surface protection and maintains high-gloss aesthetics long-term.

4 4 建议应用 Product Applications

- **高性能塑胶漆 (High-performance Plastic Coatings)**

适用于 3C 电子、汽车内饰件的色漆、银粉漆及高流平镜面清漆，提供优异的层间附着力。
Suitable for base coats and mirror topcoats for consumer electronics and automotive interiors.

- **UV 功能油墨 (UV Functional Inks)**

提升油墨层的表面张力兼容性与耐摩擦性能，确保印刷图案在复杂工况下持久清晰。
Enhances compatibility and friction resistance for durable and clear printed graphics.

5 5 常见问题解答 Q&A

Q: U-Cure 9562 在塑胶底材上的附着力表现如何？

(How is the adhesion of U-Cure 9562 on plastic substrates?)

A: 该树脂具有优异的基材润湿能力，能有效缓解固化收缩应力。对多种常用塑胶（如ABS、PC、PC/ABS 合金）展现出强劲的物理附着力。

Excellent substrate wetting helps alleviate curing shrinkage stress, showing strong physical adhesion to ABS and PC.

6 6 储存与安全 Storage and Safety

- **储存 (Storage):** 避光存放在阴凉通风处，推荐温度 -10°C 至 35°C 。密封包装有效期为 12 个月。
Store in sealed, light-proof containers at -10°C to 35°C . Shelf life is 12 months.

- **安全 (Safety):** 本品对眼部及皮肤有刺激性。操作请佩戴个人防护装备，详见安全数据表 (SDS)。
Irritating to eyes and skin. Wear personal protective equipment. Refer to SDS for details.

联系方式 Contact Information

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