

U-Cure 9317

二官能团聚氨酯丙烯酸酯树脂 / Difunctional Polyurethane Acrylate Resin

高柔韧性与优异附着力的改性树脂 / Resin with High Flexibility and Superior Adhesion

技术资料表 Technical Data Sheet (TDS)

1 产品介绍 Product Introduction

U-Cure 9317 是一种二官能团聚氨酯丙烯酸酯树脂。其分子设计旨在提供平衡的物理性能，特别是在极高要求柔韧性的应用场景中表现出色。该树脂与丙烯酸酯类单体具有良好的相容性，适用于多种固化体系。

U-Cure 9317 is a difunctional polyurethane acrylate resin designed for balanced physical properties, excelling in high-flexibility applications. It shows good compatibility with acrylate monomers and is suitable for various curing systems.

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)	4,000 - 12,000	ASTM D2196
固含量 Solid Content (%)	100%	GB/T 1725
官能度 Functionality	2	Theoretical
NCO 残存 NCO Content (%)	< 0.2%	Titration
绍氏硬度 Shore Hardness	48A	ASTM D2240
拉伸强度 Tensile Strength	1 MPa	ASTM D638
断裂伸长率 Elongation	37%	ASTM D638

3 核心特性 Key Product Features

- 柔韧性与延伸率 (High Flexibility & Elongation)**
具有极佳的韧性，可承受大幅度形变而不开裂。
Excellent toughness and elongation, capable of withstanding significant deformation without cracking.
- 附着力优异 (Superior Adhesion)**
对玻璃、金属等难附着基材表现出强大的化学键合力。
Exhibits strong chemical bonding to challenging substrates such as glass and metals.
- 耐候与耐黄变 (Weathering & Yellowing Resistance)**
出色的耐紫外线性能，长期使用不易黄变。
Outstanding UV resistance and low yellowing profile for long-term durability.
- 化学相容性 (Chemical Compatibility)**
在厌氧胶体系中具有良好的稳定性，有助于提升体系的剥离强度。
Provides excellent stability in anaerobic adhesive systems and helps improve peel strength.

4 建议应用 Product Applications

- **UV 胶粘剂 (UV Adhesives)**

用于玻璃、金属之间的结构粘接。

Used for structural bonding between glass and metal.

- **厌氧胶体系 (Anaerobic Adhesives)**

作为增韧组分，改善螺纹锁固或平面密封胶的冲击韧性。

Acts as a toughening component to improve impact toughness in thread-locking or gasket sealants.

- **车灯涂料 (Automotive Headlight Coatings)**

提供优异的保护性与耐候性。

Provides excellent protection and weathering resistance.

- **高柔性涂料 (High Flexibility Coatings)**

适用于需要弯曲、冲压或高延伸要求的工件涂装。

Suitable for coating workpieces requiring bending, stamping, or high elongation.

5 常见问题解答 Q&A

Q: U-Cure 9317 是否可用于厌氧胶体系？ (Can U-Cure 9317 be used in anaerobic systems?)

A: 可以。该树脂具有较低的 NCO 残存和良好的稳定性，作为增韧改性剂添加到厌氧锁固胶中，能显著提升其剥离强度和抗震动性能，且不影响体系的储存稳定性。

Yes. With low residual NCO and excellent stability, it serves as a toughening modifier in anaerobic adhesives to enhance peel strength and vibration resistance without compromising shelf stability.

6 储存与安全 Storage and Safety

- **储存 (Storage):** 密封容器中，并置于 -10°C 至 35°C 的阴暗环境中储存。保质期至少 12 个月。

Store in sealed containers in a dark environment between -10°C and 35°C . Shelf life is at least 12 months.

- **包装 (Packaging):** 200kg/桶。

200kg/drum.

- **安全 (Safety):** 本品对眼睛有刺激性。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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