KASTER

Innovation in Polymer Chemistry
昆山卡斯特高分子材料有限公司

U-Cure 9327

二官能团聚氨酯丙烯酯树脂 / Difunctional Polyurethane Acrylate

具有极佳韧性与机械强度的耐黄变树脂 / *High Toughness & UV Resistant Resin*

技术资料表　Technical Data Sheet (TDS)

1　产品介绍 Product Introduction

U-Cure 9327 是一款高性能的二官能团聚氨酯丙烯酯树脂。其分子结构经过特殊设计，旨在平衡材料的韧性与机械强度，具有极佳的耐黄变性和固化效率。

U-Cure 9327 is a high-performance difunctional polyurethane acrylate resin. Its molecular structure is specifically designed to balance toughness and mechanical strength, offering excellent yellowing resistance and curing efficiency.

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)	11,000 – 16,000	ASTM D2196
固含量 Solid Content (%)	100%	GB/T 1725
官能度 Functionality	2	Theoretical
NCO 残存 NCO Residual (%)	< 0.2%	Titration
绍氏硬度 Shore Hardness	87A	ASTM D2240
拉伸强度 Tensile Strength	14 MPa	ASTM D638
断裂伸长率 Elongation	92%	ASTM D638

3　核心特性 Key Product Features

- **坚韧性佳 (Excellent Toughness)**
  提供优异的机械强度与柔韧性平衡，固化膜层不易脆裂。
  Provides an excellent balance of mechanical strength and flexibility, preventing brittle failure of the cured film.
- **耐候与耐黄变 (Weatherability & Anti-yellowing)**
  具有优异的耐紫外线老化性能，长期使用仍能保持高度透明。
  Features superior UV aging resistance, maintaining high transparency over long-term exposure.
- **优异的附着力 (Superior Adhesion)**
  对玻璃、金属及多种塑胶基材表现出极强的抓地力。
  Exhibits strong grip on glass, metal, and various plastic substrates.

4 建议应用 Product Applications

- **UV 胶粘剂 (UV Adhesives)**
  特别适用于高强度要求的玻璃与金属粘接。
  Especially suitable for high-strength bonding between glass and metal.
- **UV 点胶 (UV Dispensing)**
  适用于精密电子元器件、医疗器械的结构固定与密封点胶。
  Suitable for structural bonding and sealing dispensing of precision electronic components and medical devices.

5 常见问题解答 Q&A

Q: U-Cure 9327 如何在胶粘剂应用中实现“高强度”与“坚韧性”的平衡？ (How does U-Cure 9327 balance high strength and toughness?)

A: 凭借其特殊的聚氨酯链段设计，该树脂在保持高内聚强度的同时，能通过分子链的弹性形变吸收外界冲击能量。这种“硬而不脆”的特性使其在温差变化时能应对热应力。
With its specific polyurethane segment design, this resin maintains high cohesive strength while absorbing external impact energy through elastic deformation of molecular chains, making it "tough but not brittle".

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，有效期至少 12 个月。*
  Store in sealed containers in a dark environment between -10°C and 35°C. Shelf life is at least 12 months.
- **安全 (Safety)***: 本品对眼睛有刺激性，对水生生物有毒。操作请佩戴个人防护装备，详见 SDS。*
  Irritating to eyes and toxic to aquatic life. Wear personal protective equipment. Refer to SDS for details.

联系方式 Contact Information

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