U-CURE 9567

聚氨酯丙烯酸酯 / Polyurethane Acrylate

Low Modulus, High Elongation Aliphatic PUA Resin

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® 9567 是一款二官能度的脂肪族聚氨酯丙烯酸酯 *UV* 树脂。该产品设计旨在提供极端条件下的柔韧性、低收缩率及优异的抗疲劳性能。其固化膜层表现出类似橡胶的软弹性触感，能有效吸收外界冲击并维持长效的化学稳定性。

U-CURE® 9567 is a difunctional aliphatic polyurethane acrylate (PUA) UV resin. It is designed to provide extreme flexibility, low shrinkage, and superior fatigue resistance. The cured film exhibits a rubber-like soft elastic touch, effectively absorbing external impacts while maintaining long-term chemical stability.

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)	7,000 - 13,000	ASTM D2196
固含量 Solid Content (%)	100%	GB/T 1725
官能度 Functionality	2	Theoretical
NCO 残存 NCO Content (%)	≤ 0.1%	Titration
绍氏硬度 Shore Hardness	30A	ASTM D2240
拉伸强度 Tensile Strength	1.5 MPa	ASTM D638
断裂伸长率 Elongation	175%	ASTM D638

3　核心特性 Key Product Features

- **超柔性与低模量 (Ultra-Flexibility & Low Modulus)**
  树脂具有极低的交联模量，固化后呈现高度柔软的弹性状态。
  The resin has a very low cross-linking modulus, presenting a highly soft elastic state after curing.
- **卓越的应力缓冲 (Superior Stress Buffering)**
  凭借其高伸长率特性，能显著缓解异种基材热胀冷缩产生的内应力。
  With its high elongation, it significantly relieves internal stress caused by thermal expansion and contraction.
- **耐黄变与耐候性 (Yellowing & Weather Resistance)**
  全脂肪族结构确保了产品在长期紫外光照射下不发黄、不脆化。
  The fully aliphatic structure ensures the product does not yellow or embrittle under long-term UV exposure.

4 建议应用 Product Applications

- **柔性光学胶与粘剂 (Flexible Optical Adhesives)**
  适用于柔性显示屏 *(OLED)*、触控面板的层间粘合，提供极佳的耐弯折性能。
  Suitable for interlayer bonding of flexible displays (OLED) and touch panels.
- **电子防护涂料与封装 (Electronic Protective Coatings)**
  用于精密电子元件的防潮封装或缓冲涂层，有效降低机械应力。
  Used for moisture-proof encapsulation or buffer coatings of precision electronic components.

5 常见问题解答 Q&A

Q: 该树脂固化后的表面硬度较低，是否会发粘？ (The hardness is low, will it be tacky?)

A: *U-CURE 9567* 设计为软质弹性体。若表面发粘通常由于氧抑制导致，建议在氮气保护下固化或增加能量。
Surface tackiness is usually caused by oxygen inhibition; curing under nitrogen or increasing UV energy is recommended.

6 储存与安全 Storage and Safety

- **储存 (Storage)***:* 密封容器中，阴暗环境（*-10°C* 至 *35°C*）。有效期至少 *12* 个月。
  Store in sealed containers in a dark environment (-10°C to 35°C). Shelf life is at least 12 months.
- **安全 (Safety)***:* 本品对眼睛有刺激性。操作请佩戴防护手套与眼镜，详见 *SDS*。
  Irritating to eyes. Wear protective gloves and goggles. Refer to SDS for details.

联系方式 Contact Information

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