U-Cure 9569

大分子量二官PUA / High MW 2-Func PUA

大分子量二官能聚氨酯丙烯酸酯 / *High Molecular Weight 2-Functional 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 9569 为大分子量二官能聚氨酯丙烯酸酯（*PUA*）*UV* 树脂。该产品具有显著的大分子量结构，表现出极其优异的柔韧性、良好的触感及弹性，是高性能柔性涂层及胶粘剂系统的理想选择。

U-Cure 9569 is a high molecular weight 2-functional polyurethane acrylate (PUA) UV resin. It features a prominent high MW structure, providing exceptional flexibility, good touch feeling, and excellent elasticity for high-performance flexible coating and adhesive 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)	60,000 – 100,000	ASTM D2196
固含量 Solid Content (%)	100%	GB/T 1725
官能度 Functionality	2	Theoretical
NCO 残存 NCO Residual (%)	＜ 0.2	Internal Method
绍氏硬度 Shore Hardness	58A	ASTM D2240
拉伸强度 Tensile Strength	3.5 MPa	ASTM D638
断裂伸长率 Elongation	150%	ASTM D638

3　核心特性 Key Product Features

- **大分子量结构 (High MW Structure)**
  分子链段长，赋予漆膜更稳定的物理结构、极佳的耐弯折性和优异的柔韧性。
  Long molecular chains provide a more stable physical structure, superior bending resistance, and exceptional flexibility.
- **优异的弹性回复 (Excellent Elastic Recovery)**
  具有 *150%* 的伸长率及 *58A* 的软硬度，提供极佳的弹性触感和良好的回复性能。
  With 150% elongation and 58A hardness, it provides an excellent elastic touch and recovery performance.

4　建议应用 Product Applications

- **高性能胶粘剂 (High Performance Adhesives)**
  适用于柔性基材的粘接，其高伸长率和大分子结构可有效缓冲应力，提升粘接强度。
  Suitable for flexible substrate bonding; its high elongation and high MW structure effectively buffer stress and improve bonding strength.

- **真空电镀底漆 (Vacuum Plating Primers)**
  提升底漆与基材的附着力，并为电镀层提供柔韧的支撑缓冲。
  Enhances adhesion between primer and substrate, providing flexible cushioning for the electroplated layer.
- **软质与弹性涂层 (Soft & Elastic Coatings)**
  用于皮革、软性塑料等基材，提供富有弹性的表面保护及触感。
  Used for leather, soft plastics, and other substrates to provide elastic surface protection and touch.

5 常见问题解答 Q&A

Q: 为什么选择大分子量二官PUA用于胶粘剂? (Why choose high MW 2-func PUA for adhesives?)

A: 该树脂具备低收缩率和极高的韧性，能显著降低固化过程中的内应力，防止因基材形变导致的脱胶。
The resin offers low shrinkage and extreme toughness, significantly reducing internal stress during curing and preventing delamination caused by substrate deformation.

6 储存与安全 Storage and Safety

- **储存 (Storage)***: 密封避光存放于 -10°C 至 35°C 的阴暗干燥环境中。保质期为 12 个月。*
  Store in sealed, light-proof containers at -10°C to 35°C. Shelf life is 12 months.
- **安全 (Safety)***: 该产品对眼睛有刺激性。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

昆山卡斯特高分子材料有限公司　Kunshan Kaster Polymer Co., Ltd.
地址：江苏省昆山市玉山镇祖冲之路 1666 号清华科技园
Tel: 0512-50137234　Web: www.kasterchem.com