U-Cure 9584

二官能团聚氨酯丙烯酸酯树脂

Difunctional Urethane Acrylate Oligomer

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 9584 是一种高分子量的二官能团聚氨酯丙烯酸酯树脂。该产品设计旨在平衡柔韧性与结构强度，具有优异的伸长性能与极佳的韧性，固化后呈现出中等硬度且坚韧的涂膜特征。其对塑胶基材、金属和玻璃具有卓越的附着力，并具备出色的耐黄变及耐高温高湿稳定性。

U-Cure 9584 is a high molecular weight difunctional urethane acrylate resin designed to balance flexibility and structural integrity. It offers excellent elongation and toughness, forming a medium-hard, resilient film upon curing. It exhibits superior adhesion to plastics, metal, and glass, alongside exceptional stability against yellowing, heat, and humidity.

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	澄清透明液体 / Clear Liquid	Visual
粘度 Viscosity (cps @ 60°C)	15,000 - 30,000	ASTM D2196
固含量 Solid Content (%)	100%	GB/T 1725
官能度 Functionality	2	Theoretical
NCO 残存 NCO Content (%)	< 0.2	–
绍氏硬度 Shore Hardness	70A	ASTM D2240
拉伸强度 Tensile Strength	10 MPa	ASTM D638
断裂伸长率 Elongation	380%	ASTM D638

3　核心特性 Key Product Features

- **优异的力学平衡 (Excellent Mechanical Balance)**
  固化膜兼具高拉伸强度与出色的柔韧性，能够承受大幅度形变而不开裂。
  The cured film combines high tensile strength with outstanding flexibility, withstanding significant deformation without cracking.
- **坚韧的硬度表现 (Toughness & Hardness)**
  具备适中的邵氏硬度，为基材提供良好的抗划伤性与结构保护。
  Features moderate Shore hardness, providing good scratch resistance and structural protection for substrates.
- **附着力与耐候性 (Adhesion & Durability)**
  对极性及非极性基材均有良好附着，且在极端高温高湿环境下保持物理性能稳定。
  Strong adhesion to both polar and non-polar substrates, maintaining physical property stability under extreme heat and humidity.

4 建议应用 Product Applications

- **结构胶与光学胶 (Structural & Optical Adhesives)**
  适用于需要高强度和高伸长率平衡的各类基材贴合。
  Suitable for substrate bonding requiring a balance of high strength and high elongation.
- **弹性涂料 (Flexible Coatings)**
  作为主体树脂用于金属和塑胶表面的特种功能涂层。
  Used as a primary resin for specialized functional coatings on metal and plastic surfaces.

5 常见问题解答 Q&A

Q: 该树脂固化后的膜感如何？ (What is the film feel after curing?)

A: 固化后形成坚韧、具有一定回弹性的涂膜，手感类似坚硬的弹性体，兼具防护性与柔顺性。
It forms a tough, resilient film with an elastomer-like feel, offering both protection and flexibility.

Q: U-Cure 9584 适合哪些基材的粘接？ (Which substrates are suitable for U-Cure 9584 bonding?)

A: 该树脂专门针对异质基材粘接设计，对 *PC*、*PMMA*、*ABS* 等塑胶具有极佳附着力，特别是能在玻璃、不锈钢、铝材等金属表面形成稳固的化学键合。
Specifically designed for dissimilar substrate bonding, it provides excellent adhesion to plastics like PC, PMMA, and ABS, especially forming stable chemical bonds with glass, stainless steel, and aluminum.

6 储存与安全 Storage and Safety

- **储存 (Storage)**: 应存放于合适的密封容器中，并置于温度在 *-10 ~ 35°C* 的阴暗通风环境中。在此条件下，本品可保持稳定 *12* 个月。
  Store in suitable sealed containers in a dark, ventilated environment at -10 to 35°C. Stable for 12 months under these conditions.
- **包装 (Packaging)**: 净重 *200kg/*桶。
  Net weight 200kg/drum.
- **安全 (Safety)**: 本品对眼睛有刺激性，对水生生物有毒。使用前请仔细阅读安全数据表 *(SDS)*。
  Irritating to eyes and toxic to aquatic life. Please read the SDS carefully before use.

联系方式 Contact Information

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