



产品说明书
Product Instruction

产品名称：
紫外线固化胶粘剂
Product Name:
UV Curable Adhesive

产品型号：
CXUV-0312A
Product Model:
CXUV-0312A

厂商名称：珠海长先新材料科技股份有限公司
Manufacturer: Zhuhai Changxian New Material Technology Co., Ltd.
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CXUV-0312A 紫外线固化胶粘剂

CXUV-0312A UV Curable Adhesive

产品描述:

Product Overview:

CXUV-0312A 是单组分，低等粘度紫外线/可见光固化胶粘剂，有极佳触变效果，适合机器点胶作业，对各类元器件均有一定附着力。适用于电子工业生产中的塑料、金属等多种材料电子设备的粘接、密封。固化后形成坚韧的粘接层，耐冲击和耐振动性优良。

CXUV-0312A is a one-component, medium-to-low-viscosity UV/visible-light curable adhesive with excellent thixotropy. It is suitable for automated dispensing and provides adhesion to a wide range of components. It is designed for bonding and sealing plastics, metals and other materials used in electronic equipment. After curing, it forms a tough bond layer with excellent impact and vibration resistance.

应用领域:

Applications:

- 电子元件固定
- 线束补强
- 塑料粘接
- Electronic component fixation
- Wire-harness reinforcement
- Plastic bonding

特点优势:

Key Features and Benefits:

- 快速固化，高强度
- 通用性强，适用于多种材料
- 具有极佳的触变性
- Fast curing and high strength
- Versatile adhesion to multiple materials
- Excellent thixotropy

适用材质:

Compatible Substrates:

- 聚碳酸酯 (PC)
- 聚氯乙烯 (PVC)
- 金属
- Polycarbonate (PC)
- Polyvinyl chloride (PVC)
- Metal

固化前特性:

Properties Before Curing:

项目 Item	测试方法 Test Method	参考值 Typical Value
基础原料 Base Resin	由成分决定 Determined by composition	聚氨酯丙烯酸酯 Polyurethane acrylate
外观 Appearance	目测 Visual inspection	琥珀色透明液体 Transparent amber liquid
粘度 (mPa·s, 25°C) Viscosity (mPa·s at 25°C)	GB/T 2794-2022	10,000 ± 1,500
比重 (25°C) Specific Gravity (25°C)	GB/T 13354-1992	1.17
折射率 (25°C) Refractive Index (25°C)	GB/T 6488-2022	1.48

固化条件:

Curing Conditions:

推荐固化条件 Recommended Curing Conditions	365 nm UVLED 面光源 365 nm UV LED Area Light Source	395 nm UVLED 面光源 395 nm UV LED Area Light Source
光源光强 (mW/cm²) Irradiance (mW/cm²)	800	1,500
固化时间 (秒) Curing Time (s)	10	5
固化能量 (mJ/cm²) Curing Energy (mJ/cm²)	4,000	2,000

固化说明：固化速度随紫外线灯的强度、光距、光源光谱分布、曝光时间以及基材透光率的条件而变化。计能量测试由专用能量计测试，汞灯用 M120 测试仪，LED 由 LS128 专用 LED 能量测试仪测试。

Curing Note: The curing speed varies with UV lamp intensity, working distance, spectral distribution, exposure time and substrate light transmittance. Energy is measured using dedicated radiometers: an M120 meter for mercury lamps and an LS128 LED energy meter for LED sources.

固化后特性:

Properties After Curing:

项目 Item	测试方法 Test Method	数值 Value
硬度 (Shore D) Hardness (Shore D)	GB/T 2411-2008	58 ± 3

项目 Item	测试方法 Test Method	数值 Value
吸水率 (100°C, 2 h, %) Water Absorption (100°C, 2 h, %)	GB/T 1034-2008	<4
剪切强度 (MPa, PC/PC) Shear Strength (MPa, PC/PC)	GB/T 7124-2008	>6
剪切强度 (MPa, PVC/PVC) Shear Strength (MPa, PVC/PVC)	GB/T 7124-2008	>5

电气性能:

Electrical Properties:

项目 Item	测试方法 Test Method	数值 Value
介电常数 (1 MHz) Dielectric Constant (1 MHz)	GB/T 1409-2006	2.6
介电损耗 (1 MHz) Dielectric Loss (1 MHz)	GB/T 1409-2006	0.03
介电强度 (kV/mm) Dielectric Strength (kV/mm)	GB/T 1408.1-1999	20
表面电阻率 (Ω) Surface Resistivity (Ω)	GB/T 1410-2006	1.9×10^{13}
体积电阻率 ($\Omega \cdot \text{cm}$) Volume Resistivity ($\Omega \cdot \text{cm}$)	GB/T 1410-2006	1.1×10^{13}

使用方法:

Directions for Use:

1. 该产品对光敏感。存储和操作过程中需要控制对各种光源如日光，UV 光及其它人工照明光源的暴露程度；
 2. 该产品对空气中的水分较敏感，在开封后请尽快使用，以免产品自然固化；
 3. 使用时应对被密封或粘接的表面进行清洗，去除表面杂质，油渍等污染物以获得预期的密封和粘接效果；
 4. 固化：需用达到胶层的且具有适当波长的紫外光或可见光进行照射。时间由灯的强度和光距决定，一般光照时间为固定时间的六倍；
 5. 对一些对温度特别敏感的材料进行粘接时需对材料进行冷却降温处理后使用；
 6. 未固化时的胶粘剂可用适当的有机溶剂如 IPA，MEK 等清除；
 7. 粘接好的部件须冷却至室温后再承受载荷。
1. This product is light-sensitive. During storage and handling, control exposure to sunlight, UV light and other artificial light sources.
 2. This product is sensitive to moisture in the air. Use it as soon as possible after opening to prevent unintended curing.
 3. Before use, clean the surfaces to be sealed or bonded and remove impurities, oil and other contaminants to obtain the expected sealing and bonding performance.
 4. For curing, expose the adhesive layer to UV or visible light of an appropriate wavelength. Curing time depends on lamp intensity and working distance; as a general guideline, the exposure time is six times the specified

curing time.

5. When bonding materials that are particularly temperature-sensitive, cool the materials before use.
6. Uncured adhesive can be removed with a suitable organic solvent such as IPA or MEK.
7. Allow bonded parts to cool to room temperature before applying a load.

注意事项:

Precautions:

本品对眼睛、皮肤有轻微刺激性。如若不小心溅入眼睛，请立刻用大量水冲洗。如果和皮肤接触，立即用肥皂冲洗。情况严重者请看医生。远离儿童存放。为了防止污染未使用胶液，没有使用完的胶液不得倒回原来瓶子。

This product may cause mild eye and skin irritation. If it enters the eyes, rinse immediately with plenty of water. In case of skin contact, wash immediately with soap. Seek medical attention if the condition is serious. Keep out of reach of children. To prevent contamination of unused adhesive, do not return leftover material to the original container.

包装规格:

Packaging:

- 30 g/支, 225 支/箱
- 50 g/支, 100 支/箱
- 30 g/tube, 225 tubes/carton
- 50 g/tube, 100 tubes/carton

储存和运输:

Storage and Transportation:

避光、阴凉干燥处贮存，8-28℃。

Protect from light and store in a cool, dry place at 8-28°C.

保质期：9 个月。

Shelf Life: 9 months.

安全操作须知:

Safe Handling Instructions:

安全使用须知不在此列出，操作前请阅读本产品的化学品安全说明书（MSDS），可从本公司业务专员处获得。

Safety instructions are not listed in this document. Before operation, please read the Material Safety Data Sheet (MSDS) of this product, which can be obtained from our sales representative.

温馨提示:

Please Note:

- 由于我们的产品会持续优化和改进，本手册中的相关信息可能会根据实际情况进行调整，不另行通知。如需获取最新版本或了解更多信息，欢迎随时联系我们的销售团队。
- 本公司严格按相关产品标准控制质量和提供产品（特制品按双方约定）。产品应用条件的多样性和多变性，且均非我们所能控制，因此用户应对本产品之说明书与施工参考工艺所介绍的信息和产品预先进行试验和评估，自行确定对其特定用途的适用性。
- As our products are continuously improved, the information in this manual may be updated from time to time

without prior notice. Please feel free to contact our sales team for the latest version.

- Do not mix this product with other products.
- We strictly control product quality and supply products in accordance with applicable product standards.

Custom products are supplied according to mutually agreed specifications. Application conditions vary and are beyond our control. Users should therefore test and evaluate the product and the information provided in this manual and the recommended application procedures to determine suitability for their specific use.