

Glassbond LED Capping Adhesive L931

Characteristics

- Cures with UV light in seconds
- Creates a tough plastic film
- High tensile strength
- Thixotropic
- One-component adhesive, no need for hardeners
- Cures at room temperature with UV light
- Invisible bond line
- Optimised for plastic bonding applications

Recommended For

LED components
OLED screens
Circuit boards and other electronics

Description

Glassbond LED Capping Adhesive L931 is a UV light-cured, one-component adhesive developed specifically for LED bulb manufacture. This grade demonstrates enhanced adhesion to acrylics and thermoplastics while also having an elongated working time until a final cure is required.

Physical properties

Appearance	Clear to colourless liquid
Specific gravity (at 25°C)	1.1g/cm ³
Viscosity	Gel
Flash point	>100°C
Shelf life	Six months at 2-10°C in original unopened packaging

Cured properties

Appearance	Clear, colourless
Refractive index	1.48
Hardness (Shore D)	50 - 70

Physical properties were determined on specimens prepared under laboratory conditions. Actual field conditions may vary and yield different results; therefore, data are subject to reasonable deviation. Data should not be used for specification purposes.

Application/Instructions

PREPARATION – Bring the adhesive to room temperature prior to use and ensure the surfaces to be bonded are clean and free from dirt or grease. Cleaning can be carried out with standard grade solvents such as IMS or acetone. This adhesive uses UV light to cure so a suitable light source should be acquired to initiate cure.

APPLICATION - Ensure one of the substrates that is to be adhered is transparent and aim for complete coverage of the target area. Apply Glassbond LED Capping Adhesive L931 to one substrate and hold the parts together firmly by hand. Keep both substrates steady and expose as much of the bond line as possible to UV light. If the substrates are able to be clamped together the tensile/torque strength can be improved.

Setting/Curing

When bonding glass to metal Glassbond LED Capping Adhesive L931 displays a thixotropic nature and an elongated working time. It will not form a hand-tight grip until it is exposed to UV light. Suitable pressure by hand/clamp should be applied when bonding. Full strength will be achieved after sufficient UV light exposure and 24 hours at room temperature. For optimum results we recommend a high intensity UV-A light source.

Recommended quantity of adhesive to be used (by cap type) – for guidance only

E14	0.10g
E27	0.20g
T5	0.12g
T8	0.19g
T10	0.24g
T12	0.28g

Packaging

This material is supplied in various types and sizes of containers. Please contact Glassbond for further details (sales@glassbond.co.uk).

Shelf Life

Glassbond LED Capping Adhesive L931 has a shelf life of six (6) months when stored in unopened, tightly sealed containers in a dark and dry location at 2°C to 10°C. Maximum storage temperature is 25°C. HDPE containers do not offer a complete barrier, store away from other chemicals and sources of humidity. Strong light exposure can discolour and adversely affect the product. If there is doubt as to the quality of the material, consult Glassbond.

Caution

Consult the Material Safety Data Sheets and container label caution statements for any hazards in handling this material.

Warranty

We warrant that our goods will conform to the description contained in the order and that we have good title to all goods sold. WE GIVE NO WARRANTY, WHETHER OF MERCHANTABILITY, FITNESS FOR PURPOSE OR OTHERWISE, EXPRESS OR IMPLIED, OTHER THAN AS EXPRESSLY SET FORTH HEREIN. Users shall determine the suitability of the product for intended application before using.