



**Electro Optical Components, Inc.**

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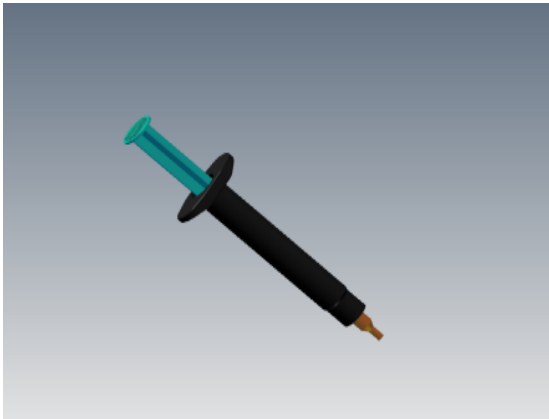
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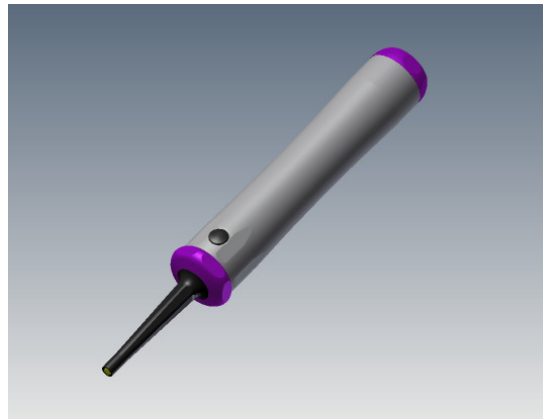
**IMM Photonics GmbH**

## **Adhesive Bonding Instructions**

### **LOCTITE® 3491™ UV adhesive**



UV adhesive syringe (item no. 3120000498)



illumCURE (item no. 160000023A)

## Properties

### LOCTITE® 3491™ UV adhesive

The LOCTITE® 3491™ UV adhesive is a transparent, liquid adhesive which can be cured within seconds with the help of UV light in a range of 365 nm. It can be used in various ways for the fixing and adhesive bonding of optics or mechanical components in the laboratory or in production (see product description attached).

### The ilumCURE manual UV exposure unit

The ilumCURE manual UV exposure unit is a UV LED light source with a peak intensity wavelength of 365 nm. It is ideally suitable as a UV source for curing the LOCTITE® 3491™ UV adhesive.

## Instructions for use

Remove the UV adhesive syringe (item no. 3120000494) from the case (item no. 1600000038) take off the protective cap and attach one of the three included syringe needles depending on the amount of adhesive or the application:

- Thin syringe needle (item no. 3120000072)
- Medium syringe needle (item no. 3120000071)
- Thick syringe needle (item no. 3120000210)

To fix or bond components, apply one or several adhesive dots and expose them to UV light with the ilumCURE manual UV exposure unit by pressing the black pushbutton for **5 seconds to 20 seconds**, depending on the amount of adhesive. The distance from the ilumCURE tip depends on the area to be exposed and should be between **5 mm** and approx. **30 mm**. (Always wear eye protection; see "Safety measures"!)

Remove the syringe needle after use and replace the protective cap.

## **Safety measures / warnings**

### **LOCTITE® 3491™ UV adhesive**

- **Observe included safety data sheet according to EC no. 1907/2006!**
- **Work under an extraction system and do not inhale fumes.**
- **Avoid contact with skin, eyes and clothes.**
- **Keep away from open fire and sources of ignition.**
- **Protect from heat; do not smoke.**

### **ilumCURE UV exposure unit**

- **Comply with safety regulations according to currently valid standards (2006/25/EC, DIN EN 62471-2009, etc.)!**
- **Do not look into the beam!**
- **Take precautions; use protective window or eye protection made of suitable materials (e.g. PMMA “Plexiglas”)!**
- **Always avoid exposure of skin and eyes!**

## **Disposal**

Uncleaned packages (e.g. syringe with uncured adhesive residues) have to be disposed of as special waste.

Packages that do not contain any harmful substances (e.g. cured or cleaned) can be recycled.