

### **DELO® PHOTOBOND® DM4077**

UV- and light curing acrylate adhesive, high viscosity

#### **Base**

- modified urethane acrylate
- one-component, solvent-free, thixotropic

#### **Use**

- damping material for mini loudspeakers
- fast curing
- very soft adhesive
- easy dispensing control due to fluorescent modification
- UV- and light-curing: can be cured through UV-blocking foils
- the cured product is normally used in a temperature range of -40 °C to +120 °C; depending on the application, other limits may be more reasonable
- compliant with RoHS directive 2015/863/EU

#### **Processing**

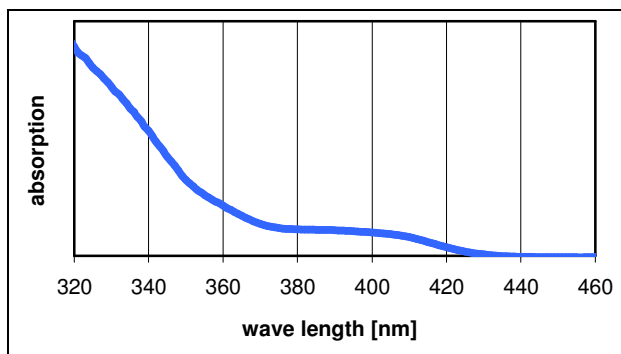
- supplied ready for use
- the surfaces to be bonded must be dry as well as free of dust, grease and other contaminations
- use Isopropanol for the cleaning of glass
- for further information please refer to the instructions for use

#### **Curing**

- with UV light or visible light in a wavelength range of 320 - 420 nm

#### **Absorption spectrum**

photoinitiation system in acrylate matrix



#### **Curing parameters**

- dependent on material thickness and absorption, adhesive layer thickness, lamp type and distance between lamp and adhesive layer
- at the adhesive, the effective curing intensity should be at maximum 400mW/cm<sup>2</sup> taking into consideration the transmittance of the joining parts

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## **Technical data**

<i>Color</i> cured in a layer thickness of approx. 0.1 mm	blue fluorescent
<i>Density [g/cm<sup>3</sup>]</i> DELO standard 13	1,065
<i>Viscosity [mPas]</i> at 23 °C, Brookfield spindle/rpm 7/5	50000
<i>Minimal curing time [s]</i> DELO Standard 23, LED 400nm, intensity: 200 mW/cm <sup>2</sup> , DELOLUXcontrol	6
<i>Shore hardness 00</i> based on ASTM D2240	35
<i>Shrinkage [vol. %]</i> DELO Standard 13	3.7
<i>Storage life</i> at room temperature (0 °C to +25 °C) in unopened original container	6 months

## **Instructions and advice**

### **General**

The data and information provided are based on tests performed under laboratory conditions. Reliable information about the behavior of the product under practical conditions and its suitability for a specific purpose cannot be concluded from this. It is the customer's responsibility to test the suitability of a product for the intended purpose by considering all specific requirements and by applying standards the customer deems suitable (e. g. DIN 2304-1). Type, physical and chemical properties of the materials to be processed with the product, as well as all actual influences occurring during transport, storage, processing and use, may cause deviations in the behavior of the product compared to its behavior under laboratory conditions. All data provided are typical average values or uniquely determined parameters measured under laboratory conditions. The data and information provided are therefore no guarantee for specific product properties or the suitability of the product for a specific purpose.

Nothing contained herein shall be construed to indicate the non-existence of any relevant patents or to constitute a permission, encouragement or recommendation to practice any development covered by any patents, without permission of the owner of this patent.

All products provided by DELO are subject to DELO's General Terms of Business. Verbal ancillary agreements are deemed not to exist.

### **Instructions for use**

The instructions for use of DELO PHOTOBOND are available on: [www.DELO.de](http://www.DELO.de). We will be pleased to send them to you on demand.

### **Occupational health and safety**

see material safety data sheet

### **Specification**

The properties in italics are part of the specification. Ranges with clear limits are defined for them and others, where applicable. In the course of the QA test, each batch is tested for these properties and the maintenance of the limits is ensured. The measuring methods used can deviate from those specified in the data sheet. Details can be found in the QA test report.