

DELO® PHOTOBOND® DM4088

UV- and light curing acrylate adhesive, high viscosity

Base

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

Use

- damping adhesive for mini loudspeakers
- fast curing
- very soft adhesive
- 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 +150 °C; depending on the application, other limits may be more reasonable
- compliant with RoHS directive 2015/863/EU

Processing

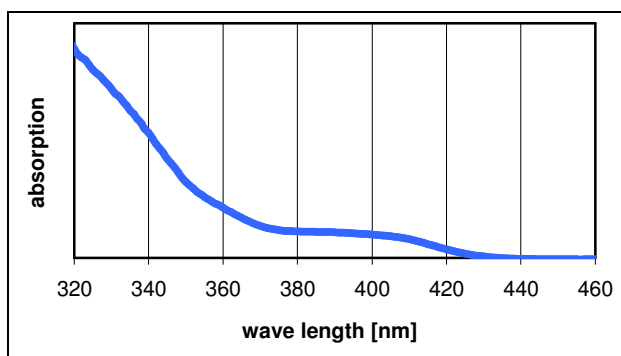
- supplied ready for use
- the surfaces to be bonded must be dry as well as free of dust, grease and other contaminations
- use DELOTHEN EP cleaner for the cleaning of glass
- for further information please refer to the instructions for use

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
- on the adhesive, the intensity value of the light should lie between 50 and 150mW/cm². The radiolucency of the parts to be joined has to be adhered

Technical data

Color cured in a layer thickness of approx. 0.1 mm	blue fluorescent
Density [g/cm³] at room temperature (approx. 23 °C)	0,912
Viscosity [mPas] at 23 °C, rheometer, shear rate 1 1/s	85000
Viscosity [mPas] at 23 °C, rheometer, 2 1/s	54000
Minimal curing time [s] DELO Standard 23, LED 400nm, intensity: 60 mW/cm ² , DELOLUXcontrol	9
shore hardness 000	34
shore hardness 000 based on ASTM D2240, after 7 days at 80 °C	50
shore hardness 000 based on ASTM D2240, after 7 days at 150 °C	50
Glass transition temperature [°C] DMTA	-12
Storage life at room temperature (+18 °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. We will be pleased to send them to you on demand.

Occupational health and safety

see material safety data sheet