

### DELO® PHOTOBOND® SL4165

UV- and light curing acrylate adhesive, high viscosity

#### Base

- modified acrylate
- one-component, solvent-free

#### Use

- Highly flexible, light-curing sealant for use as FIPG (Form-In-Place Gasket) / CIPG (Cure in Place Gasket) material
- Good recovery capacity and very fast curing for secure sealing and direct further processing
- generally, the product is used in a temperature range of -40 °C up to +120 °C; related to the application, other limits may be more reasonable
- compliant with RoHS directive 2015/863/EU

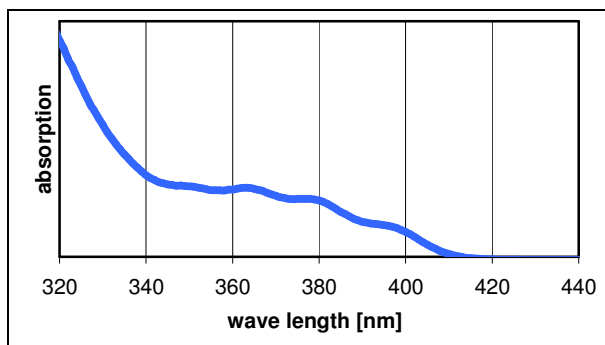
#### Curing

- with UV light or visible light in a wavelength range of 320 - 450 nm

Lamp type	DELOLUX 20 / 50 / 80		
Wavelength [nm]	365	400	460
Suitability	+	++	-

- not suitable + suitable ++ especially suitable

#### Absorption spectrum



#### Curing parameters

- dependent on material thickness and absorption, adhesive layer thickness, lamp type and distance between lamp and adhesive layer

## **Processing**

- the adhesive is supplied ready for use; in case of cool storage, it must be ensured that the container is conditioned to room temperature before use
- the containers are conditioned at room temperature (+18 °C to +25 °C); the conditioning time is approx. 0.5 h for containers up to 50 ml and approx. 4 h for containers up to 1,000 ml; additional heat addition is not allowed
- the adhesive can be applied by dispensing
- the surfaces to be bonded must be dry as well as free of dust, grease and other contaminations
- dispensing valves and product-bearing elements must be carefully cleaned before use, residues of other products must be completely removed; isopropanol is recommended to remove DELO PHOTOBOND residues
- for further information please refer to our instructions for use DELO PHOTOBOND and the brochure "Light Curing"

## **Technical data**

<i>Color</i> uncured	yellowish fluorescent
<i>Color</i> cured	colorless fluorescent
<i>Density [g/cm<sup>3</sup>]</i> at room temperature (approx. 23 °C)	0.99
<i>Viscosity [mPas]</i> at 23 °C, rheometer, PP20, gap 500µm, shear rate 2/s	124000
<i>Minimal curing time [s]</i> DELO Standard 23, LED 400nm, intensity: 200 mW/cm <sup>2</sup> , DELOLUXcontrol	6
<i>Compression shear strength glass/Al [MPa]</i> DELO Standard 5	2
<i>Compression shear strength glass/stainless steel [MPa]</i> DELO Standard 5	2
<i>Compression shear strength glass/PC [MPa]</i> DELO Standard 5	2
<i>Tensile strength [MPa]</i> DIN EN ISO 527	2
<i>Elongation at tear [%]</i> DIN EN ISO 527	170
<i>Young's modulus [MPa]</i> DIN EN ISO 527	<100
<i>Glass transition temperature [°C]</i> DELO Standard 24	-37
<i>Shore hardness A</i> according to DIN EN ISO 868	41
<i>Compression set [%]</i> based on DIN EN ISO 815	15
<i>Water absorption [%]</i> according to DIN EN ISO 62, 24 h at room temperature (approx. 23 °C)	0.2
<i>Storage life at room temperature (0 °C to +25 °C)</i> 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.