

DELO DUALBOND AD465

modified acrylate | 1C | UV- / VIS- / heat-curing

free of solvents

Special features of product

- compliant with RoHS Directive 2015/863/EU

Function

- electronic adhesive

Typical area of use

- 40 - 120 °C
- pin potting
- pin sealing

Curing

Suitable lamp types LED 365 nm, LED 400 nm

Recommended irradiation time

intensity 55 - 60 mW/cm²
UVA 4 s

intensity 200 mW/cm²
LED 400 nm 2 s

Recommended curing time

at +110 °C
in air convection oven 5 min

at +130 °C
in air convection oven 3 min

Processing

Adhesive application needle-dispensable

Storage life in unopened original container

at 0 °C to +10 °C 6 month(s)

Technical properties

Color in cured condition in 0.1 mm layer thickness red

Fluorescence	fluorescent
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Density	1.1	g/cm ³
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Parameters

Density <i>DELO Standard 13 Liquid</i>	1.1	g/cm ³
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Viscosity <i>Liquid Rheometer Shear rate: 2 1/s Gap: 500 µm</i>	14500	mPa·s
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Viscosity <i>Liquid Rheometer Shear rate: 10 1/s Gap: 500 µm</i>	6500	mPa·s
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Compression shear strength <i>DELO Standard 5 Glass Al 60 mW/cm² 60 s</i>	22	MPa
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Compression shear strength <i>DELO Standard 5 Glass Stainless steel 60 mW/cm² 60 s</i>	19	MPa
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Compression shear strength <i>DELO Standard 5 Glass FR4 60 mW/cm² 60 s</i>	21	MPa
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Compression shear strength <i>DELO Standard 5 Glass Glass 60 mW/cm² 60 s</i>	22	MPa
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Compression shear strength <i>DELO Standard 5 Glass PA66 60 mW/cm² 60 s</i>	14	MPa
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Compression shear strength <i>DELO Standard 5 Glass PBT 60 mW/cm² 60 s</i>	5	MPa
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Tensile strength <i>Based on DIN EN ISO 527 60 mW/cm² 90 s</i>	17	MPa
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Elongation at tear <i>Based on DIN EN ISO 527 60 mW/cm² 90 s</i>	224	%
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Young's modulus <i>Based on DIN EN ISO 527 60 mW/cm² 90 s</i>	320	MPa
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Shore hardness D <i>Based on DIN EN ISO 868 60 mW/cm² 90 s</i>	50	
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Glass transition temperature <i>DELO Standard 24 Rheometer</i>	102	°C
Shrinkage <i>DELO Standard 13 60 mW/cm² 90 s</i>	5.6	vol. %

Converting table

°F = (°C x 1.8) + 32	1 MPa = 145.04 psi
1 inch = 25.4 mm	1 GPa = 145.04 ksi
1 mil = 25.4 µm	1 cP = 1 mPa·s
1 oz = 28.3495 g	1 N = 0.225 lb

General curing and processing information

The curing time stated in the technical data was determined in the laboratory. It can vary depending on the adhesive quantity and component geometry and is therefore a reference value. The heating time of the components must be added to the actual curing time. It depends on component size and oven type. The specified curing temperature must be reached directly at the adhesive. Increasing or decreasing the curing temperature and / or irradiation intensity shortens or prolongs the curing time and can lead to changed physical properties. All curing or light fixation parameters depend on material thickness and absorption, adhesive layer thickness, lamp type and distance between lamp and adhesive layer. Values measured after 24 h at approx. 23 °C / 50 % r.h., unless otherwise specified.

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 are available on www.DELO-adhesives.com. We will be pleased to send them to you on demand.

Occupational health and safety

See material safety data sheet.

Specification

Nothing contained in this Technical Datasheet shall be interpreted as any express warranty or guarantee. This Technical Datasheet is for reference only and does not constitute a product specification. Please ask our responsible Sales Engineer for the applicable product specification which includes defined ranges. DELO is neither liable for any values and content of this Technical Datasheet nor for oral or written recommendations regarding the use, unless otherwise agreed in writing. This limitation of liability is not applicable for damages resulting from intent, gross negligence or culpable breach of cardinal obligations, nor shall it apply in case of death or personal injury or in case of liability under any applicable compulsory law.

CONTACT