

DELO DUALBOND® SL4955

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

free of solvents | dual-curing

Special features of product

- compliant with RoHS Directive 2015/863/EU
- halogen-free according to IEC 61249-2-21

Function

- sealant
- Dam for Dam&Fill

Curing

Suitable lamp types LED 365 nm, LED 400 nm

Typical irradiation time

*intensity 55 - 60 mW/cm²
LED 400 nm* 20 s

*intensity 200 mW/cm²
LED 400 nm* 15 s

*intensity 1,000 mW/cm²
LED 400 nm* 4 s

Processing

Conditioning time (typical)

*when stored in cold conditions
in containers up to 50 ml* 30 min

*when stored in cold conditions
in containers up to 1,000 ml* 4 h

Storage life in unopened original container

at +18 °C to +25 °C 30 day(s)

at 0 °C to +10 °C 6 month(s)

Technical properties

Transparency transparent

Color in cured condition in 0.1 mm layer thickness colorless

Parameters

Density <i>DELO Standard 13 liquid</i>	1.01	g/cm ³
Viscosity <i>liquid Rheometer Shear rate: 2 1/s Gap: 200 µm</i>	18000	mPa·s
Viscosity <i>liquid Viscosimeter</i>	35000	mPa·s
Shore hardness 00 <i>Based on DIN EN ISO 868 90 s Plus at approx. +23 °C 72 h rel. air humidity: 50 %</i>	40	
Glass transition temperature <i>DMTA Plus at approx. +23 °C 72 h rel. air humidity: 50 %</i>	-58	°C
Shrinkage <i>DELO Standard 13 90 s Plus at approx. +23 °C 72 h rel. air humidity: 50 %</i>	1	vol. %
Index of refraction <i>Refractometer 60 mW/cm² 60 s Plus at approx. +23 °C 72 h rel. air humidity: 50 %</i>	1.477	
b value <i>DELO Standard 25 Plus at approx. +23 °C 72 h rel. air humidity: 50 %</i>	2.2	
Stud pull strength <i>DELO Standard 48 Glass Glass 60 s Plus at approx. +23 °C 3 h rel. air humidity: 50 %</i>	0.5	MPa
Shear modulus <i>DELO Standard 45 DMTA Plus at approx. +23 °C 72 h rel. air humidity: 50 %</i>	46	kPa

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. Increasing or decreasing the curing temperature and / or irradiation intensity and / or irradiation time 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.

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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

You can find further details in the 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

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ADHESIVES

DISPENSING

CURING

CONSULTING

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