

DELO[®] PHOTOBOND[®] SL4155

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

free of solvents | flow-resistant, thixotropic, surface-dry

Special features of product

- compliant with RoHS Directive 2015/863/EU

Function

- CIPG (Cure In Place Gasket)

Typical area of use

- 40 - 120 °C

Curing

Suitable lamp types LED 365 nm, LED 400 nm

Typical irradiation time

*intensity 200 mW/cm²
LED 400 nm
layer thickness 100 µm* 3 s

*intensity 1000 mW/cm²
LED 400 nm
layer thickness 1.0 mm* 3 s

Processing

Conditioning time (typical)

in containers up to 50 ml 30 min

in containers up to 900 ml 4 h

Processing time

in standard climate +23 °C / 50 % r. h. 30 d

Storage life in unopened original container

*up to <= 55 ml
at 0 °C to +25 °C* 6 month(s)

*up to <= 600 ml
at 0 °C to +25 °C* 6 month(s)

Technical properties

Color in cured condition in 0.1 mm layer thickness	whitish
Color in cured condition in 1 mm layer thickness	yellowish
Filler information	polymer
Filler particle size d95	21 μm

Parameters

Density <i>by the criteria of DIN 66137-2 liquid</i>	1.01	g/cm ³
Viscosity <i>liquid Rheometer Shear rate: 2 1/s Gap: 500 μm</i>	135000	mPa·s
Compression shear strength <i>DELO Standard 5 Glass Al 400 nm 200 mW/cm² 30 s</i>	1	MPa
Compression shear strength <i>DELO Standard 5 Glass Stainless steel 400 nm 200 mW/cm² 30 s</i>	1	MPa
Compression shear strength <i>DELO Standard 5 Glass Glass 400 nm 200 mW/cm² 30 s</i>	1	MPa
Compression shear strength <i>DELO Standard 5 PC PC 400 nm 200 mW/cm² 30 s</i>	4	MPa
Tensile strength <i>by the criteria of DIN EN ISO 527 400 nm 200 mW/cm² 60 s</i>	2	MPa
Elongation at tear <i>by the criteria of DIN EN ISO 527 400 nm 200 mW/cm² 60 s</i>	150	%
Young's modulus <i>DMTA 400 nm 200 mW/cm² 60 s Type of storage: Temp. Storage temperature: 105 °C Duration: 30 min</i>	< 10	MPa
Shore hardness A <i>by the criteria of DIN EN ISO 868 400 nm 200 mW/cm² 60 s</i>	40	
Compression set <i>by the criteria of DIN ISO 815 400 nm 200 mW/cm² 60 s Type of storage: Temp. Storage temperature: 85 °C Duration: 24 h</i>	25	%
Glass transition temperature <i>DMTA 400 nm 200 mW/cm² 60 s Type of storage: Temp. Storage temperature: 105 °C Duration: 30 min</i>	-13	°C

Shrinkage 5 vol. %
DELO Standard 13 | 400 nm | 200 mW/cm² | 60 s

Water absorption 0.6 wt. %
by the criteria of DIN EN ISO 62 | Layer thickness: 4 mm | 400 nm | 200 mW/cm² | 60 s | Type of storage: Media | Medium: Distilled water | Duration: 24 h

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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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

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