

DELO DUALBOND® SR4995

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

free of solvents | dual-curing, peel-resistant, humidity-resistant, unfilled, thixotropic, very good temperature resistance

Special features of product

- compliant with RoHS Directive 2015/863/EU
- compliant with limits of VOC content in adhesive acc. to GB33372-2020

Typical area of use

- -40 - 150 °C
- bonding of voice coil and membrane in miniloudspeakers
- bonding of membrane and dome in miniloudspeakers

Curing

Suitable lamp types LED 365 nm, LED 400 nm

Typical irradiation time

*intensity 200 mW/cm²
LED 400 nm
layer thickness 100 µm* 4 s

*intensity 1000 mW/cm²
LED 400 nm
layer thickness 100 µm* 2 s

Processing

Typical adhesive application needle dispensing, jetting

Conditioning time (typical)

*when stored in cold conditions
in containers up to 50 ml* 1 h

*when stored in cold conditions
in containers up to 600 ml* 5 h

Processing time

*in standard climate +23 °C / 50 % r. h.
in containers up to 600 ml* 30 d

Storage life in unopened original container

*up to <= 600 ml
at 0 °C to +10 °C* 6 month(s)

Technical properties

Color in cured condition in 0.1 mm layer thickness	red
Transparency in cured condition in 0.1 mm layer thickness	transparent
Fluorescence	red + blue fluorescent

Parameters

Density <i>by the criteria of DIN 66137-2 liquid</i>	1.03	g/cm ³
Viscosity <i>liquid Rheometer Shear rate: 2 1/s Gap: 500 µm</i>	40000	mPa·s
Viscosity <i>liquid Rheometer Shear rate: 10 1/s Gap: 500 µm</i>	12000	mPa·s
Thixotropy index <i>liquid Rheometer Gap: 500 µm</i>	5.8	
Compression shear strength <i>DELO Standard 5 Glass AI 400 nm 200 mW/cm² 30 s Plus at approx. +23 °C Rel. air humidity: 50 % 72 h</i>	7	MPa
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Compression shear strength <i>DELO Standard 5 Glass PA6 400 nm 200 mW/cm² 30 s Plus at approx. +23 °C Rel. air humidity: 50 % 72 h</i>	8	MPa
Compression shear strength <i>DELO Standard 5 Glass PPA 400 nm 200 mW/cm² 30 s Plus at approx. +23 °C Rel. air humidity: 50 % 72 h</i>	5	MPa
Compression shear strength <i>DELO Standard 5 PC PC 400 nm 200 mW/cm² 30 s Plus at approx. +23 °C Rel. air humidity: 50 % 72 h</i>	8	MPa
Peel resistance <i>PC AI 400 nm 200 mW/cm² 60 s Plus at approx. +23 °C Rel. air humidity: 50 % 72 h</i>	1	N/mm
Peel resistance <i>DELO Standard 34 PEEK PEEK 400 nm 200 mW/cm² 60 s Plus at approx. +23 °C Rel. air humidity: 50 % 72 h</i>	2	N/mm

Tensile strength <i>by the criteria of DIN EN ISO 527 400 nm 200 mW/cm² 60 s Plus at approx. +23 °C Rel. air humidity: 50 % 72 h</i>	9	MPa
Elongation at tear <i>by the criteria of DIN EN ISO 527 400 nm 200 mW/cm² 60 s Plus at approx. +23 °C Rel. air humidity: 50 % 72 h</i>	500	%
Young's modulus <i>DMTA 400 nm 200 mW/cm² 60 s Plus at approx. +23 °C Rel. air humidity: 50 % 72 h</i>	200	MPa
Shore hardness A <i>by the criteria of DIN EN ISO 868 400 nm 200 mW/cm² 120 s Plus at approx. +23 °C Rel. air humidity: 50 % 72 h</i>	55	
Glass transition temperature <i>DMTA 400 nm 200 mW/cm² 60 s Plus at approx. +23 °C Rel. air humidity: 50 % 72 h</i>	50	°C
Shrinkage <i>DELO Standard 13 400 nm 200 mW/cm² 120 s Plus at approx. +23 °C Rel. air humidity: 50 % 72 h</i>	5.5	vol. %
Water absorption <i>by the criteria of DIN EN ISO 62 Layer thickness: 4 mm 400 nm 200 mW/cm² 120 s Plus at approx. +23 °C Rel. air humidity: 50 % 72 h Type of storage: Media Medium: Distilled water Storage temperature: at approx. +23 °C Duration: 24 h</i>	1.9	wt. %

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

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