

DELO DUALBOND® LT2277

modified epoxy resin | 1C | light-fixable / heat-curing

free of solvents, free of antimony | low-temperature-curing from + 60 °C, heat curing mandatory, light-fixable, tension-equalizing, flow-resistant, filled, light-blocking, thixotropic

Special features of product

Typical area of use

- compliant with RoHS Directive 2015/863/EU
- halogen-free according to IEC 61249-2-21
- compliant with limits of VOC content in adhesive acc. to GB33372-2020

-	-40 -	150	00
	-40 -	100	

Curing		
Suitable lamp types	LED 365 nm, LED 400 nm	
Typical light fixation time		
intensity 1,000 mW/cm² LED 365 nm	1	S
Typical curing time		
at +80 °C in air convection oven	30	min
Processing		
	jetting, needle dispensing	
Typical adhesive application	jetting, need	le dispensing
Typical adhesive application Conditioning time (typical)	jetting, need	lle dispensing
	jetting, need	le dispensing
Conditioning time (typical) when stored in cold conditions		
Conditioning time (typical) when stored in cold conditions in containers up to 50 ml		
Conditioning time (typical) when stored in cold conditions in containers up to 50 ml Processing time in standard climate +23 °C / 50 % r. h.	1	h



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reclinical properties		
Color in cured condition in 1 mm layer thickness	black	
Transparency in cured condition in 1 mm layer thickness	opaque	
Filler particle type	minerals	
Parameters		
Density by the criteria of DIN 66137-2 liquid	1.32	g/cm³
Viscosity by the criteria of DIN 53019 liquid Rheometer Shear rate: 10 1/s Gap: 500 μm	75000	mPa∙s
Thixotropy index by the criteria of DIN 53019 liquid Rheometer Gap: 500 µm	5.9	
Compression shear strength DELO Standard 5 AI AI 80 °C 60 min	25	MPa
Compression shear strength DELO Standard 5 LCP MR25 LCP MR25 80 °C 60 min	14	MPa
Compression shear strength DELO Standard 5 Ni Ni 80 °C 60 min	22	MPa
Compression shear strength DELO Standard 5 PA11T PA11T Pretreatment: Annealing 80 °C 60 min	19	MPa
Compression shear strength DELO Standard 5 PC PC 80 °C 60 min	30	MPa
Tensile strength by the criteria of DIN EN ISO 527 365 nm 1000 mW/cm² 1 s Plus 80 °C 60 min	21	MPa
Elongation at tear by the criteria of DIN EN ISO 527 365 nm 1000 mW/cm² 1 s Plus 80 °C 60 min	90	%
Young's modulus DMTA 365 nm 1000 mW/cm² 1 s Plus 80 °C 60 min	2600	MPa
Glass transition temperature DMTA 365 nm 1000 mW/cm² 1 s Plus 80 °C 60 min	35	°C
Coefficient of linear expansion DELO Standard 26 TMA Evaluation T: -34 °C - 5 °C 365 nm 1000 mW/cm² 1 s Plus 80 °C 60 min	38	ppm/K



Coefficient of linear expans DELO Standard 26 TMA Evalua 60 min	sion tion T: 150 °C - 80 °C 365 nm 1000 mW/cm² 1 s Plus 80 °C	188	ppm/K
	Layer thickness: 4 mm 365 nm 1000 mW/cm² 1 s Plus 80 °C Medium: Distilled water Duration: 24 h	0.1 C/	wt. %
Transmission at wavelength: 450 nm Glass G 80°C 60 min	lass Layer thickness: 300 μm 365 nm 1000 mW/cm² 1 s Pla	1.1 us	%
Converting table			
°F = (°C x 1.8) + 32 1 inch = 25.4 mm 1 mil = 25.4 µm 1 oz = 28.3495 g	1 MPa = 145.04 psi 1 GPa = 145.04 ksi 1 cP = 1 mPa·s 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 type of heat input. The specified curing temperature must be reached directly at the adhesive. 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. Depending on the adhesive quantity used, exothermic reaction heat is generated which can lead to overheating. In this case, a lower curing temperature is to be selected. All curing or light fixation parameters depend on material thickness and absorption, adhesive layer thickness, lamp type and distance between lamp and adhesive layer. Optional prefixation is performed with light. Heat curing is mandatory. 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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CONTACT

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