

DELO DUALBOND® SJ4725

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

free of solvents | dual-curing, flowable, filled, light-fixable, tension-equalizing

Special features of product

Typical area of use

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

-40 - 120 °C

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Suitable lamp types	LED 365 nm, LED 400 nm, LED 460 nm	
Typical irradiation time		
intensity 200 mW/cm² LED 400 nm layer thickness 100 μm	10	S
Typical curing time	•	
at +110 °C in air convection oven	15	min
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
Processing time		
in standard climate +23 °C / 50 % r. h. in containers up to 50 ml	14	d
in standard climate +23 °C / 50 % r. h. in containers up to 1,000 ml	7	d
Storage life in unopened original container		
up to $<= 55 \text{ml}$ at 0 °C to +10 °C	3	month(s)



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redimon properties		
Color in uncured condition	reddish	
Color in cured condition in 0.1 mm layer thickness	red	
Color in cured condition in 1 mm layer thickness	red	
Fluorescence	red fluorescent	
Parameters		
Density by the criteria of DIN 66137-2 liquid	1	g/cm³
Viscosity by the criteria of DIN 53019 liquid Rheometer Shear rate: 2 1/s Gap: 500 μm	2500	mPa∙s
Compression shear strength DELO Standard 5 AI AI 400 nm 200 mW/cm² 5 s Plus 100 °C 20 min	20	MPa
Compression shear strength DELO Standard 5 Stainless steel Stainless steel 400 nm 200 mW/cm² 5 s Plus 100 °C 20 min	25	MPa
Compression shear strength DELO Standard 5 Glass Glass 400 nm 200 mW/cm² 30 s Plus 100 °C 20 min	16	MPa
Compression shear strength DELO Standard 5 Glass PA6 400 nm 200 mW/cm² 30 s Plus 100 °C 20 min	10	MPa
Compression shear strength DELO Standard 5 PEEK FR4 400 nm 200 mW/cm² 5 s Plus 100 °C 20 min	5	MPa
Tensile strength by the criteria of DIN EN ISO 527 400 nm 200 mW/cm² 60 s Plus 100 °C 20 min	18	MPa
Elongation at tear by the criteria of DIN EN ISO 527 400 nm 200 mW/cm² 60 s Plus 100 °C 20 min	250	%
Young's modulus DMTA 400 nm 200 mW/cm² 60 s Plus 100 °C 20 min	700	MPa
Shore hardness D by the criteria of DIN EN ISO 868 400 nm 200 mW/cm² 60 s Plus 100 °C 20 min	43	
Glass transition temperature DMTA 400 nm 200 mW/cm² 60 s Plus 100 °C 20 min	78	°C



Coefficient of linear expan DELO Standard 26 TMA Evalua 20 min	sion ation T: 110 °C50 °C 400 nm 200 mW/cm² 60 s	210 Plus 100°C	ppm/K
Shrinkage DELO Standard 13 400 nm 200	0 mW/cm² 60 s Plus 100 °C 20 min	6.5	vol. %
	Layer thickness: 4 mm 400 nm 200 mW/cm² 60 s Medium: Distilled water Storage temperature: at ap		wt. %
Converting table °F = (°C x 1.8) + 32 1 inch = 25.4 mm 1 mil = 25.4 µm	1 MPa = 145.04 psi 1 GPa = 145.04 ksi 1 cP = 1 mPa·s		

General curing and processing information

1 oz = 28.3495 g 1 N = 0.225 lb

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. 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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