

DELO® PHOTOBOND® DM4083

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

free of solvents | thixotropic, unfilled

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
- membrane damping or wireloop fixation in miniloudspeakers

Curing

Suitable lamp types LED 365 nm. LED 400 nm 200 mW/cm² Intensity (maximum) Typical irradiation time intensity 200 mW/cm² 9 S LED 400 nm layer thickness 100 µm Processing Conditioning time (typical) when stored in cold conditions 30 S in containers up to 50 ml when stored in cold conditions 4 h in containers up to 1,000 ml Storage life in unopened original container at 0 °C to +25 °C 6 month(s) **Technical properties** Color in cured condition in 0.1 mm layer thickness blue

Function

damping adhesive



Fluorescence	blue fluore	blue fluorescent	
Parameters			
Density <i>liquid</i>	0.91	g/cm³	
Viscosity by the criteria of DIN EN 12092 liquid Rheometer Shear rate: 1 1/s	88000	mPa∙s	
Thixotropy index liquid Rheometer Gap: 500 μm	4.8		
Peel resistance DELO Standard 34 PC 400 nm 200 mW/cm² 60 s	0.3	N/mm	
Peel resistance DELO Standard 34 PEEK 400 nm 200 mW/cm² 60 s	0.25	N/mm	
Shore hardness 000 by the criteria of ASTM D 2240 400 nm 200 mW/cm² 90 s	50		
Glass transition temperature DMTA	-34	°C	
Water absorption by the criteria of DIN EN ISO 62 400 nm 200 mW/cm² 90 s Type of storage: Media Media Distilled water Storage temperature: at approx. +23 °C	0.96 . <i>ım:</i>	wt. %	
Converting table			
°F= (°C x 1.8) + 321 MPa = 145.04 psi1 inch = 25.4 mm1 GPa = 145.04 ksi1 mil= 25.4 μ m1 cP1 oz= 28.3495 g1 N1 oz= 28.3495 g			

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

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