

DELO-DUOPOX® 01 rapid

Multi-purpose 2c epoxy resin, cures at room temperature, medium-viscous, unfilled

Base

- epoxy resin
- two-component

Use

- multi-purpose adhesive
- in mechanical engineering and tool construction
- in electrical engineering and electronics
- also for repair and in the do-it-yourself sector
- fast achievement of initial strength
- the cured product is normally used in a temperature range of -40 °C to +80 °C; depending on the application, other limits may be more reasonable
- compliant with RoHS directive 2015/863/EU

Processing

- ready for use from portion package with spatula and mixing pallet
- open the package by cutting the edge off, empty the package completely and mix or homogenize both adhesive components intensively for approx. 30 s
- fast processing of the ready mixture is required due to the short pot life
- the surfaces to be bonded must be dry as well as free of dust, grease and other contaminations
- use DELOTHEN cleaners for the cleaning of bonding surfaces

Curing

- at room temperature (approx. 23 °C)
- very fast reaction
- increased temperatures accelerate curing
- applying heat could change physical characteristics

Technical data

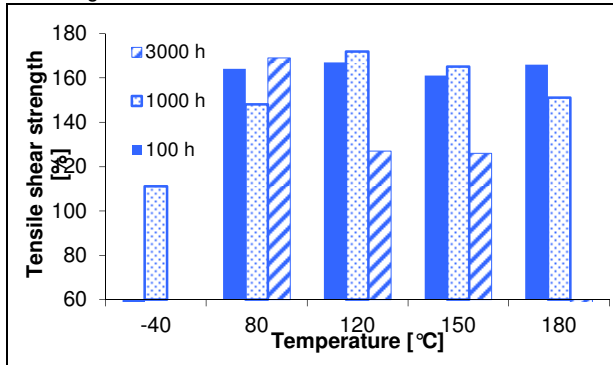
<i>Color</i>	yellowish transparent
Filler	unfilled
Mixing ratio (A : B) according to weight	1 : 1
Density of component A [g/cm ³] DELO Standard 13 at room temperature (approx. 23 °C)	1.2
Density of component B [g/cm ³] DELO Standard 13 at room temperature (approx. 23 °C)	1.13

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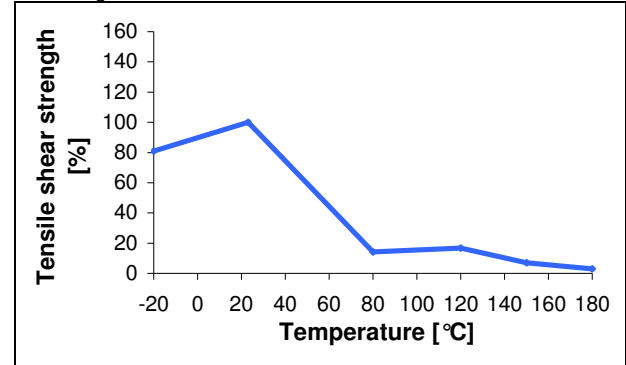
Viscosity of component A [mPas] Brookfield at 23 °C	63000
Viscosity of component B [mPas] Brookfield at 23 °C	21000
Processing time in 3 g preparation [min] at room temperature (approx. 23 °C)	4
Maximum reaction temperature [°C] in 20 g preparation	150
Curing time until initial strength [min] tensile shear strength 1 - 2 MPa at room temperature (approx. 23 °C)	8
Curing time until functional strength [h] tensile shear strength > 10 MPa at room temperature (approx. 23 °C)	2
Curing time until final strength [h] at room temperature (approx. 23 °C)	24
Tensile shear strength Al/Al [MPa] by the criteria of DIN EN 1465, sand-blasted component thickness 1.6 mm, gap 0.1 mm curing: 24 h at room temperature (approx. 23 °C)	17
Floating roller peel resistance St/St [N/mm] DELO Standard 38, St/St sand-blasted component thickness: 1.6 mm and 0.5 mm	2.6
Temperature stability Al/Al at +100 °C [MPa] according to DIN EN 1465, sand-blasted component thickness: 1.6 mm	1.5
Tensile strength [MPa] according to DIN EN ISO 527	35
Elongation at tear [%] according to DIN EN ISO 527	3
Young's modulus [MPa] according to DIN EN ISO 527	1800
Shore hardness D according to DIN EN ISO 868	40
Decomposition temperature [°C] DELO Standard 36	200
Water absorption [weight %] according to DIN EN ISO 62, 24 h at room temperature (approx. 23 °C)	1.9
Storage life at room temperature (approx. 23 °C) in unopened original container (volume per component < 1l)	12 months

Performance under temperature influence

tensile shear strength Al/Al sand-blasted after temperature storage based on initial value at room temperature measured at room temperature (approx. 23 °C) according to DIN EN 1465



tensile shear strength Al/Al sand-blasted at temperature based on initial value at room temperature measured at determined temperature according to DIN EN 1465



Instructions and advice

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.

Nothing contained herein shall be construed to indicate the non-existence of any relevant patents or to constitute a permission, encouragement or recommendation to practice any development covered by any patents, without permission of the owner of this patent.

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

The instructions for use of DELO-DUOPOX are available on: www.DELO.de. We will be pleased to send them to you on demand.

Occupational health and safety

see material safety data sheet

Specification

The properties in *italics* are part of the specification. Ranges with clear limits are defined for them and others, where applicable. In the course of the QA test, each batch is tested for these properties and the maintenance of the limits is ensured. The measuring methods used can deviate from those specified in the data sheet. Details can be found in the QA test report.