

DELO-DUOPOX® CR8016

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

Base

- epoxy resin
- two-component
- product is free of nonylphenol and bisphenol-A

Use

- multi-purpose
- in mechanical engineering and tool construction
- in electrical engineering and electronics
- good flow behavior
- the cured product is normally used in a temperature range of -40 °C to +120 °C; depending on the application, other limits may be more reasonable
- compliant with RoHS directive 2015/863/EU

Processing

- supplied ready for use and can be processed well from the original container
- components A and B must be mixed homogeneous in the mixing ratio stated below
- long-term heating of components A and B up to max. +40 °C
- 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
- increased temperatures accelerate curing
- applying heat could change physical characteristics

Technical data

Color	yellowish
Filler	unfilled
Mixing ratio (A : B) according to weight	1.86 : 1
(A : B) according to volume	1.68 : 1
Density of component A [g/cm ³] DELO Standard 13 at room temperature (approx. 23 °C)	1.19
Density of component B [g/cm ³] DELO Standard 13 at room temperature (approx. 23 °C)	1.04

Viscosity of component A [mPas] at 23 °C, rheometer (Paar) shear rate 2/s	12000
Viscosity of component B [mPas] at 23 °C, rheometer (Paar) shear rate 2/s	6000
Processing time in 3 g preparation [min] at room temperature (approx. 23 °C)	15
Maximum reaction temperature [°C] in 3 g preparation	27
Processing time in 20 g preparation [min] at room temperature (approx. 23 °C)	15
Maximum reaction temperature [°C] in 20 g preparation	138
Tensile shear strength Al/Al [MPa] DIN EN 1465, sand-blasted component thickness: 1.6 mm curing: 7 d at room temperature (approx. 23 °C)	10
Tensile shear strength Al/Al [MPa] DIN EN 1465, sand-blasted component thickness: 1.6 mm curing: 1 h at + 80 °C and 7 d at room temperature (approx. 23 °C)	11
Tensile strength [MPa] DIN EN ISO 527 curing: 7 d room temperature (approx. 23 °C)	52
Elongation at tear [%] DIN EN ISO 527 curing: 7 d room temperature (approx. 23 °C)	2
Young's modulus [MPa] DIN EN ISO 527 curing: 7 d room temperature (approx. 23 °C)	2400
Shore hardness D DIN EN ISO 868 Curing: 7 d at room temperature (approx. 23 °C)	77
Volume shrinkage curing: 7 d room temperature (approx. 23 °C)	3.5
Glass transition temperature [°C] DSC, 2nd heating process	74
Water absorption [weight %] DIN EN ISO 62 curing: 7 d room temperature (approx. 23 °C)	0.1
Storage life at room temperature (approx. 23 °C) in unopened original container	6 months

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