

DELO-DUOPOX® CR805

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

Base

- epoxy resin
- two-component, thixotropic
- product is free of nonylphenol

Use

- multi-purpose
- in Mechanical Engineering and Tool Construction
- in Electrical Engineering and Electronics
- good flow behavior, flexible
- the cured product is normally used in a temperature range of -40 °C to +140 °C; depending on the application, other limits may be more reasonable
- compliant with RoHS directive 2015/863/EU

Processing

- components A and B must be mixed well or homogenized in the mixing ratio stated below until the preparation is free of streaks
- supplied ready for use and can be processed well from the original container
- long-term heating of component A 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

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

Technical data

<i>Color</i>	black
Filler	unfilled
Mixing ratio (A : B) according to weight	0.84 : 1
(A : B) according to volume	0.72 : 1
Density of component A [g/cm ³] DELO Standard 13 at room temperature (approx. 23 °C)	1.17
Density of component B [g/cm ³] DELO Standard 13 at room temperature (approx. 23 °C)	1.00

DELO Industrial Adhesives
DELO-Allee 1
86949 Windach · Germany
Phone +49 8193 9900-0
Fax +49 8193 9900-144
info@DELO.de · www.DELO.de

Viscosity of component A [mPas] 10000
Brookfield at 23 °C

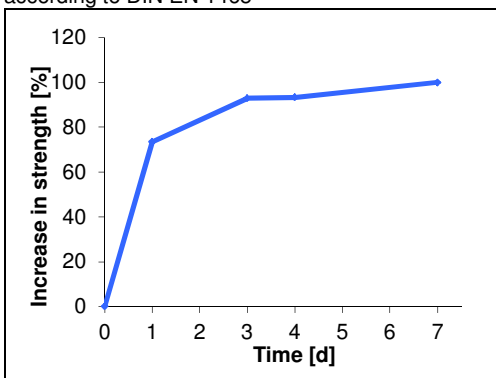
Viscosity of component B [mPas] 450
Brookfield at 23 °C

Processing time in 100 g preparation [min] 35
at room temperature (approx. 23 °C)

Maximal reaction temperature [°C] 106
in 100 g preparation at room temperature (approx. 23 °C)

Tensile shear strength Al/Al [MPa] 12
DIN EN 1465, sand-blasted
component thickness: 1.6 mm
curing: 7 d at room temperature (approx. 23 °C)

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



Floating roller peel resistance St/St [N/mm] 4
DELO Standard 38, St/St sand-blasted
component thickness: 1.6 mm and 0.5 mm

Tensile strength [MPa] 10
DIN EN ISO 527

Elongation at tear [%] 60
DIN EN ISO 527

Young's modulus [MPa] 100
DIN EN ISO 527

Shrinkage [vol. %] 4
DELO Standard 13

Water absorption [weight %] 0.5
DIN EN ISO 62, 24 h at room temperature (approx. 23 °C)

Shore hardness D 45
DIN EN ISO 868

Decomposition temperature [°C] 190
DELO Standard 36

Specific volume resistance [Ω cm] $>1 \times 10^{13}$
VDE 0303, part 30

Dielectric strength [kV/mm] 16
VDE 0303, part 2

Dielectric constant 3.2
VDE 0303, part 4

Creep resistance CTI
VDE 0303, part 11, DIN EN 60112

600 M

Storage life at room temperature (max. 25 °C)
in unopened original container (volume per component < 1l)

12 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 the product for the intended purpose by considering all specific requirements. Type and 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. The data and information provided are therefore no guarantee for specific product properties or the suitability of the product for the intended 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 DELOs' General Terms of Business. Verbal side agreements are not permitted. This document is subject to change.

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.